

Lebanon Valley
College



'12

Robertson Hall
College

FORTY-SIXTH ANNUAL CATALOGUE

OF

Lebanon Valley College

ANNVILLE, PA.

Conservatory of Music

The Academy

1912

PRESS OF
HIESTER PRINTING AND PUBLISHING CO.
ANNVILLE, PA.

CALENDAR**1911-1912****1911**

September 13, Wednesday, College year began.
 November 30, Thursday, Anniversary of the Clionian Literary Society.
 December 21, Thursday, Fall Term ended.

1912

January, 3, Wednesday, Winter Term began.
 January 22-26, Mid-year examinations.
 January 25, Thursday, Day of Prayer for Colleges.
 January 26, Friday, First Semester ended.
 January 29, Monday, Second Semester began.
 March 29, Friday, Anniversary of Kalozetean Literary Society.
 May 3, Friday, Anniversary of Philokósmian Literary Society.
 May 28-31, Senior Final examinations.
 June 3-7, Final examinations.
 June 9, Sunday 10:30 a. m., Baccalaureate sermon.
 7:30 p. m., Address before Christian Associations.
 June 10, Monday, 7:45 p. m., Exercises by Graduating Class in Music.
 June 11, Tuesday 9:00 a. m., Annual Meeting of the Board of Trustees.
 2:00 p. m., Class Day exercises.
 7:45 p. m., Junior Oratorical Contest.
 9:00 p. m., Alumni Banquet and Re-union.
 June 12, Wednesday 10:00 a. m., Forty-sixth Annual Commencement.
 8:00 p. m., Annual Play, Merchant of Venice.

1912-1913**1912**

September 9-10, Examination and registration of Students.
 September 11, Wednesday, College year begins.
 November 28, Thursday, Anniversary of Clionian Literary Society.
 November 28-29, Thanksgiving Recess.
 December 20, Friday, Fall Term ends.

1913

January 1, Wednesday, Winter Term begins.
 January 20-24, Mid-year examinations.
 January 23, Thursday, Day of Prayer for Colleges.
 January 27, Monday, Second Semester begins.
 February 9, Sunday, Day of Prayer for Students.
 February 22, Saturday, Washington's Birthday.
 March 19, Wednesday, Winter Term ends.

EASTER RECESS

March, 26, Wednesday, Spring Term begins.
 June 11, Wednesday, 10:00 a. m., Forty-seventh Annual Commencement.

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S. H. BOWERS, ESQ.,	Lemoyne	1914
GEORGE G. SNYDER, ESQ.,	Hagerstown, Md.	1914
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* Deceased.

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College Pastor

The College

HISTORY OF THE COLLEGE

LEBANON VALLEY COLLEGE originated in the action of East Pennsylvania Conference at its annual session held at Lebanon in March, 1865. Resolutions were passed deciding the question of establishing a higher institution of learning to be located within the bounds of the East Pennsylvania or of the Pennsylvania Conference. One year later the committee appointed, recommended in its report: First, the establishment of a school of high grade under the supervision of the church; second, to accept for this purpose the grounds and buildings of what was then known as the Annville Academy, tendered as a gift to the Conference; and, third, to lease the buildings and grounds to a responsible party competent to take charge of the school for the coming year. School opened May 7, 1866, with forty-nine students. By the close of the collegiate year one hundred and fifty-three were enrolled, thus demonstrating at once the need of such an institution in this locality and the wisdom of the founders.

In April, 1867, the Legislature granted a charter with full university privileges under which a College faculty was organized with Rev. Thomas Rees Vickroy, Ph. D., as president, and Prof. E. Benjamin Bierman, A. M., as principal of the Normal Department. The same year the Philokosmian Literary Society was organized by the young men, additional land was purchased and a large brick building erected thereon with chapel, recitation rooms, president's office, and apartments for sixty boarding students. The building was not furnished and fully occupied till the fall of 1868.

The first regular commencement occurred June 16, 1870. About two years later opposition to the school manifested itself and President Vickroy stated in his report to the annual Conference that the attendance of students was reduced from one hundred to seventy-five, the cause of this diminution being persistent opposition on the part of certain brethren.

President Vickroy directed the affairs of the institution for five years, from 1866 to 1871. During his administration the charter was prepared and granted by the State Legislature, the laws and regulations for the internal workings framed and adopted, the curriculum established, and two classes—those of 1870 and 1871—were graduated. In June, 1871, Prof. Lucian H. Hammond was elected president. During his term of office five classes were graduated, the Clionian Literary Society organized by the ladies, and the College made steady and substantial progress, but failing health compelled him to resign in June, 1876.

Rev. David D. DeLong, D. D., became the third president. He found it necessary to reconstruct the faculty and retained but two of the former teachers. The Kalozetean Literary Society was instituted to awaken interest in literary work among the young men by means of a healthy rivalry, and the music department was organized. In the summer of 1883 a large two-story frame building was erected on College Avenue, containing art room, music rooms, the department of natural science, a museum and the College library. During his presidency one-hundred and seven students were graduated, fourteen in music and ninety-three in the literary department.

After an interregnum of several months Rev. Edmund S. Lorenz, A. M., was elected president and took up the work with energy and ability. Enlargement was his motto and the friends of the College rallied to his support. Post graduate studies were offered. The College Forum made its appearance under the editorship of the Faculty. With a devotion that won the admiration of his friends he labored incessantly for nearly two years to make the College the peer of any in the State, but under this strain his health failed and he was obliged to retire at the close of the collegiate year of 1889.

The fifth president, Rev. Cyrus J. Kephart, D. D., assumed the duties of his office at the opening of the fall term in 1889. He secured creditable additions to the endowment fund but because of discouraging conditions declined re-election at the close of the first year.

The question of re-locating the College agitated its constituency, divided its friends and greatly hindered its progress. Some were almost in despair, others were indifferent, while others hoped and waited for the best. Under these conditions the Board of Trustees met in special session July 28, 1890, and called Dr. E. Benjamin Bierman to the presidency. He was inaugurated on the evening of the sixth of November following. Buildings were renovated, a large number of students enrolled and the Mary A. Dodge Fund of ten thousand dollars received, "the interest of which only is to be loaned without charge to such pious young people as the Faculty of the College may deem worthy of help as students." The Silver Anniversary of the College was celebrated June 15, 1892, when money was raised to purchase about three acres of ground to be added to the college campus. With the experience of twenty-five years of earnest effort to combat opposition and overcome errors and misconceived notions of higher education and to build up an institution of learning creditable to the United Brethren Church, the friends of the College entered upon the second quarter of a century with new hope and aspiration.

President Bierman served successfully until the spring of 1891, when he was succeeded by Rev. Hervin U. Roop, Ph. D., who held the office till Jan. 1, 1906, after which time the administration was in the hands of the Executive Committee and the Faculty until the election of Rev. A. P. Funkhouser, A. M., March 9, 1906.

The presidency of Dr. Roop stands out as the period when the group system in the College curriculum was introduced, when the athletic field was acquired, when the disastrous fire of December 24, 1904, occurred, sweeping away the Administration Building in a few hours, and when several new buildings arose on the campus—Engle Music Hall 1899, and the Carnegie Library and Ladies' Dormitory in 1904. The recuperative powers of the institution were put to the test by the destruction of the main building. At a meeting held January 5, 1905, the friends of the College, resolved, amid unusual enthusiasm to rebuild at once and with the stimulus of a gift of fifty thousand dollars from Andrew Carnegie received by the President, who had previously secured \$20,000 from the same source plans were matured by which to raise one hundred thousand dollars for this purpose. The erection of three new buildings was projected—the Men's Dormitory, the Central Heating Plant and the new Administration Building, the latter being completed under the supervision of President Funkhouser, whose term of office is marked also by a strenuous effort to straighten out the tangled threads in the financial skein and to meet the debt which rose to almost or altogether ninety thousand dollars. Bonds were issued to the amount of fifty thousand dollars and the co-operative college circles organized to relieve the financial conditions.

Rev. Lawrence Keister, S. T. B., D. D., was elected president of the College, June 10, 1907, at the annual session of the Board of Trustees. He solicited \$7,700 for the equipment of the Science Department, secured the Mills Scholarship \$1000 and the Immiel Scholarships \$2000. The debt effort authorized by the Board, June 3, 1908, was carried forward successfully, \$50,000 having been pledged, before Jan. 1, 1909, according to the condition of the pledge which also required the continuation of the canvass to secure another \$50,000 in order to cover the entire debt. At the death of the Rev. Daniel Eberly, D. D., July 9, 1910 whose will bears date of September 17, 1909, the College came into possession of property valued at about \$45,000, the major part being given for the endowment of the Latin Chair. According to the Treasurers books the amount of outstanding bonds April 1, 1912 was \$43,000.

GENERAL INFORMATION

The College is situated in Annville, which is on the Harrisburg division of the Philadelphia and Reading Railway. Annville is also connected by trolley line with Lebanon and Harrisburg.

Buildings and Grounds

There are seven buildings on the campus, the Carnegie Library, the Engle Music Hall, the Women's Dormitory, the Men's Dormitory, the Academy Building, the Administration Building, and the Heating Plant.

THE CARNEGIE LIBRARY, a building of the Gothic style of architecture, erected in 1904, furnishes commodious quarters for the growing library of the College. Each department has its particular books for reference in addition to the larger number of volumes for general reference and study. An annual amount is appropriated by the Board of Trustees for the purchase of new books, and plans are being made for the enlargement of the library in order to meet the growing needs of the College.

Two large reading rooms on the first floor, splendidly lighted and ventilated, and beautifully furnished, are provided with the leading magazines and daily papers. Periodicals devoted to the special work of each department are here, as well as magazines of general literature. On the second floor are six seminar rooms designed to be equipped with the special works of reference for the various departments, where students doing the most serious work may study undisturbed.

THE ENGLE MUSIC HALL, of Hummelstown brownstone, erected in 1899, contains the college chapel, used for all large college gatherings, a director's office and studio, practice rooms, and a large society hall. The building is well equipped with pianos and a large pipe organ.

THE WOMEN'S DORMITORY was erected in 1905, and is a building of beautiful proportions. In addition to rooms which will accommodate forty-five students, there are a society hall, a dining hall, a well equipped kitchen, and a laundry.

THE MEN'S DORMITORY is a modern structure of brick with Indiana limestone trimmings. It contains single and double rooms and sixteen suites of two bed rooms with a separate study room. These afford accommodations for eighty-five students. This building was also erected in 1905.

THE ACADEMY BUILDING, the original building of the institution, and acquired by gift in 1866 when the College was founded, is now used as a dormitory.

THE HEATING PLANT, erected in 1905, is in harmony with the buildings above described. It contains a low pressure heating system of the most perfect construction and supplies the heat for all the buildings on the campus. It is constructed with a view to the installation of a light plant.

THE ADMINISTRATION BUILDING is the most important and central of the buildings. It is built of buff brick with terra cotta trimmings, three stories high. It contains the recitation rooms of the College and the laboratories of the science department. The department of art has here commodious and modern quarters. The administration offices of fire proof construction are on the first floor.

To accommodate all these buildings, the campus, originally of ten acres, has been recently enlarged by purchase. It occupies a high point in the centre of the town of Annville and is within easy access of all trolley and railroad lines.

The athletic field of five and one-half acres is well located and admirably adapted to the purpose for which it is intended. On it are erected a grand stand and bleachers.

Laboratories

The entire northern half of the Administration Building is occupied by the department of science. The Department of Chemistry occupies the first floor; Physics the second, and Biology the third.

The laboratories of each department are constructed after the most approved modern methods, and students find everything arranged for their convenience. Stock rooms and special laboratories adjoin the general laboratories. The lecture rooms are provided with risers and Columbia tablet arm chairs.

Religious Work

Recognizing that most of its students come from Christian families, the College has always tried to furnish religious training. It believes in cultivating the heart as well as the mind, and encourages all wholesome means of promoting Christian influence.

Each school morning, a regular service is held in the college chapel,

at which the students are required to be present. At this service there is singing, reading of Scripture, and prayer. Members of the Faculty conduct this service.

A student's prayer meeting is held once a week, and opportunities for Bible study and mission study are offered by the Christian Associations in addition to those afforded by the regular curriculum.

All resident students of the College are required to attend public worship in churches of their choice every Sunday.

The religious life during the past year has been earnest and helpful, and patrons may feel satisfied that high moral influences are being exerted constantly over their children.

College Organizations

Christian

Associations

The College has flourishing Young Men's and Young Women's Christian Associations, which hold regular weekly devotional services and conduct special courses of Bible and mission study, often in charge of members of the Faculty.

Under these auspices numerous public lectures, entertainments, and socials are held, so that they contribute incalculably to the pleasure of the student body. They are the centre of the spiritual welfare of the students and deserve the hearty support of all connected with the College.

Literary

Societies

Excellent opportunities for literary improvement and parliamentary training are afforded by the societies of the College. There are three of these societies—one sustained by the young ladies, the Clonian, and two by the young men, the Kalozetean and the Philokosmian. They meet every Friday evening in their well furnished halls for literary exercises consisting of orations, essays and debates. These societies are considered valuable agencies in college work, and students are advised to unite with one of them.

Biological

Field Club

The Biological Field Club offers to any student of the College an opportunity to collect, study, and discuss objects of interest in the field of living nature. Frequent excursions are made to places of special interest to members of the club.

Athletic

Association

The Athletic Association is composed of all students and others connected with the College, who pay the required athletic fee. It elects, besides its own officers, the managers of the various athletic teams.

The direct supervision of athletics is in the hands of the committee of the association, called the executive board of athletics. This board is made up of seven members as follows: Two members of the Faculty of the College; the president of the association, who is ex-officio president of the board; the baseball, football, and basket-ball managers, and the treasurer of the association.

The Mathematical Round Table

The Mathematical Round Table is an organization of the students of the College who are interested in Mathematical Studies. It has been in successful operation for over a year. Its object is to create interest in and love for the "exact science." Its meetings are held on the last Wednesday evening of each month. Papers on mathematical history and biography are read and discussed. Current events in the mathematical world and papers on various mathematical subjects have made the meetings very interesting and helpful.

Modern Lan- guage Club

In order to stimulate interest in the study of the modern languages, at the request of the junior and senior students of the modern language group, a club has been formed under the direction of the adviser of the group. The club meets every third Saturday afternoon or evening as occasion suggests. Student programs alternate with lectures by the teachers in the department.

Literary and Musical Advantages

During the college year, the student body has the privilege of hearing lectures and talks delivered by resident professors and men of note in church and literary circles.

The department of music together with the department of public speaking presents a number of programs during the year for the pleasure and benefit of the general student body. Concerts and recitals by prominent musicians are given under the patronage of the department of music with the aim of creating in the student an appreciation for the best in art.

There is a lively interest in the drama. Various college organizations have presented Shakespearean and other plays of a high grade.

A further means of enjoyment and education is the course of lectures and concerts under the management of the Christian associations of the College.

Administration

Advisers The following are the advisers for the students in each of the five groups in which courses of instruction are offered: For the classical group, Professor Shroyer; for the mathematical-physical, Professor Lehman; for the chemical-biological, Professor Derickson; for the historical-political, Professor Peters; for the modern language, Professor Wisewell; for the freshman class, Professor Shenk and for the Academy, Professor Spessard. The students of each group are amenable to the adviser in all matters of conduct, study and discipline. He is to grant leave of absence, permission to go out of town, and excuses. His approval is necessary before a student may register for or enter upon any course of study, or discontinue any work. He is the medium of communication between the Faculty and the students of his group, and in a general way stands to his students in the relation of a friendly counsellor.

Discipline It is earnestly desired that students may be influenced to good conduct and diligence by higher motives than fear of punishment. The sense of duty and honor, the courteous and general feelings natural to young men and women engaged in literary pursuits, are appealed to as the best regulators of conduct. It is the policy of the administration to allow in all things as much liberty as will not be abused, and the students are invited and expected to coöperate with the Faculty; but good order and discipline will be strictly maintained and misconduct punished by adequate penalties. The laws of the College are as few and simple as the proper regulation of a community of young men and women will permit. The College will not place its stamp or bestow its honors upon anyone who is not willing to deport himself becomingly. No hazing of any kind will be permitted. Every unexcused absence from any college duty, every failure or misdemeanor of a student is reported to the Faculty, and a record made of the same.

Classification The maximum number of hours, conditioned, permitted for senior standing is four; for junior standing, six; for sophomore, eight and for freshmen, to be decided for individual students by the committee on classification.

The permitted number of extra hours of work above that prescribed by the curriculum is limited by the student's record for previous years as follows:

- (a) Majority of A's, nothing less than B—no limit.
- (b) Majority of B's, nothing less than C—four hours.
- (c) Lower record than (b)—no extra hours.

Class Standing The scholarship of students is determined by result of examinations and daily recitations combined. The grades are carefully recorded.

Reports of standing will be made to parent or guardian at the end of each term when desired by them, or when the Faculty deems it expedient. The standing is indicated generally by classification in six groups, as follows:

A signifies that the record of the student is distinguished.

B signifies that the record of the student is very good.

C signifies that the record is good.

D signifies the lowest sustained record.

E (conditioned) imposes a condition on the student. Conditions incurred in January must be made up by June; conditions incurred in June must be made up by September. Failing to make up a condition at the time appointed is equal to a record F.

F (failed completely) signifies that the student must drop or repeat the subjects, and cannot be admitted to subjects dependent thereon.

If the student's record as a whole is poor, he may be required to repeat certain subjects, to repeat the year, or to withdraw.

Degree and Diploma The degree of bachelor of arts is conferred, by a vote of the Board of Trustees on recommendation of the Faculty, upon students who have satisfactorily completed any of the groups.

Graduate Work Since all its members are fully occupied with undergraduate work, the Faculty deems it unwise to offer any work for the degree of Master of Arts during the coming year. In rare cases sufficient resident work upon certain advanced courses may be outlined. But a special action would be required in each case, no detailed announcement can be made here. All inquiries about graduate work should be addressed to the Dean.

Scholarships

The College offers a limited number of one-hundred-dollar free tuition scholarships to honor graduates of State normal Schools and approved high schools and academies. One scholarship is allotted to the first honor graduate of our own academy.

Graduates of high schools and academies whose standard is not equal to that of our own academy, may enter the senior year of the academy and become competitors for our own academy scholarship.

Honor graduates of preparatory schools who have conditions may



be allowed to make them up in the freshmen year. If the first semester's work shows a majority of A's and nothing less than B in all work including conditions, a scholarship may be awarded.

The Bishop J. S. Mills' scholarship established by a gift of \$1000 is available.

The H. S. Immel Scholarships being a gift of \$2000, will be available "for young men in the college who are preparing for the ministry in the church of the United Brethren in Christ."

The proceeds of the Eberly farm became available for "indigent students" in 1911-12.

The Charles B. Rettew-Scholarship in Bonebrake Seminary is limited to students from East Pennsylvania Conference and Lebanon Valley College.

The Faculty and Executive Committee shall make all scholarship awards.

Expenses

COLLEGE AND ACADEMY

MATRICULATION FEE.....	\$ 5 00
PHYSICAL CULTURE AND ATHLETICS.....	5 00
TUITION, COLLEGE OR ACADEMY.....	50 00

For twenty hours or less in the College, or for twenty-four hours or less in the Academy, the tuition is \$50.00. Each additional hour, for semester or half-year, \$1.50.

Deduct \$25.00 from the regular tuition for minister's children.

The tuition of fifty dollars in the Preparatory and College department does not apply to the Art, Oratory and Musical departments. The tuition of these departments will be found elsewhere in this catalogue.

All regular music students are required to pay a matriculation fee of three dollars and three dollars for Athletics and Physical Culture.

All special students are required to pay a matriculation fee of one dollar and one dollar for Athletics and Physical Culture.

All art students and all oratory students, not otherwise matriculated, shall pay one dollar matriculation fee annually, before privilege or privileges of the College are granted to them.

LABORATORY FEES, per semester:

Biology 1-a.....	\$ 2 00
Biology 1-b.....	6 00
Biology 2.....	6 00

Biology 3.....	5 00
Biology 4.....	5 00

A deposit of \$2.00 is required of each student who is assigned a locker in the biological laboratory as a guarantee of the care and return of the keys and apparatus. The treasurer will refund the deposit when a certificate from the department is presented stating that the keys have been returned in good condition.

Elementary Chemistry.....	\$ 4 00
Chemistry 1.....	6 00
Chemistry 2.....	7 00
Chemistry 3.....	6 00
Chemistry 4.....	5 00
Chemistry 5.....	10 00

A deposit of \$3.00 is required of each student who is assigned a locker in the chemical laboratory. Any part of this breakage deposit unused will be refunded at the end of the course.

Physics 3.....	\$5 00
Elementary Physics.....	3 00

All laboratory fees and deposits for each semester must be paid in advance. A student will not be assigned a locker or apparatus in any of the laboratories without a certificate from the Treasurer of the College stating that the fee has been paid and the deposit made.

GRADUATION FEE, payable thirty days prior to commencement, \$10.00.

TABLE BOARD

TABLE BOARD—Regular students, paid in advance, \$3.75 per week; \$140 a year.

Five-day Students, (fifteen meals), \$2.70 per week; \$100 per year.

Meal tickets are furnished to day students at the rate of twenty-five cents per meal.

ESTIMATED EXPENDITURES

COLLEGE AND ACADEMY

The item sundries in the following table include such expenses as, Laboratory Fees, Society Fees, Deposit Fees, Christian Association Fees, Club Fees, Star Course Fees, Books, Stationary, Banquet Fees and Laundry, which aggregate approximately from twenty-four to one hundred and twenty-four dollars, annually, according to the means and habits of the individual student.

GENERAL INFORMATION

19

A student can without injury to himself or herself reduce the annual expense below two hundred and seventy dollars, the lowest estimate, in the following table.

A more liberal expenditure would approximate three hundred and ninety-six dollars for a college year of thirty-eight weeks.

Thus the expenditure of a student while passing through Lebanon Valley College, ranges from thirty to forty-four dollars per month, not including clothing, car-fare and luxuries. In going over the list of sundry expenses, it may be observed that some of these items are optional.

The following table exhibits six scales of annual expenditures,

Matriculation	\$ 5 00	\$ 5 00	\$ 5 00	\$ 5 00	\$ 5 00	\$ 5 00
Physical Culture	5 00	5 00	5 00	5 00	5 00	5 00
Tuition	50 00	50 00	50 00	50 00	50 00	50 00
Room Rent		40 00	45 00	50 00	55 00	60 00
Boarding		140 00	140 00	140 00	140 00	140 00
Light and Heat		6 00	6 00	7 00	9 00	12 00
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	60 00	246 00	251 00	257 00	267 00	272 00
Sundries, (approximately)	24 00	37 00	49 00	60 00	124 00	
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	270 00	288 00	306 00	324 00	396 00	

APPORTIONMENT OF EXPENSES

Matriculation Fee of \$5.00 in advance.

	Year	One- Fifth Sept. 20	One- Fifth Nov. 1	Three- Tenths Jan. 4	Three- Tenths Mar. 27
Boarding, Regular	\$140 00	\$28 00	\$28 00	\$42 00	\$42 00
Boarding, 5-day	100 00	20 00	20 00	30 00	30 00
Tuition	50 00	10 00	10 00	15 00	15 00
Room Rent	40 00	8 00	8 00	12 00	12 00
Room Rent	45 00	9 00	9 00	14 00	13 00
Room Rent	50 00	10 00	10 00	15 00	15 00
Room Rent	55 00	11 00	11 00	17 00	16 00
Room Rent	60 00	12 00	12 00	18 00	18 00
Light and Heat	6 00	1 00	1 00	2 00	2 00
Light and Heat	7 00	1 00	1 00	3 00	2 00
Light and Heat	9 00	2 00	2 00	3 00	2 00
Light and Heat	12 00	3 00	3 00	3 00	3 00
Phys. Culture and Athletics	5 00	1 00	2 00	1 00	1 00

These rates are fixed by special act of the Board of Trustees. Failure to pay a bill before another falls due will exclude a student from classes and the privileges of the College.

The regular College expenses are divided into four installments, and students are required to pay each installment in advance. The first installment is due at the opening of the School Year; the second, November 1st; the third, January 4th and the fourth, March 27th.

Students who are candidates for degrees must make satisfactory settlement for all dues and bills before degrees are voted.

No reduction will be made for tuition and room-rent, for a semester, except for protracted sickness. In case of long continued illness, the loss is shared equally by the College and the student.

No reduction will be made for table board, for an absence of less than one week, and then only in case of sickness, or important duties that compel the student to be absent from his College work. Reductions cannot be allowed for banquet trips, or Club trips, or Athletic trips.

Students are required to furnish their own towels, napkins, soap, and all bed furnishings, except mattresses.

Any student who receives beneficiary aid from the college, may be called upon to render services to the College for all or part of the aid so received.

Opportunity for self-help is extended to a limited number of students. One hundred and twenty Dollars (\$120) is allowed to those who are given waiterships. Sixty-six dollars and fifty cents (\$66.50) to the librarians. Fifty-seven dollars (\$57.00) to the janitor of the Library. Forty-seven dollars and fifty cents (\$47.50) to the janitors in the Men's Dormitory and in the Administration Building. Thirty-eight dollars (\$38.00) to the janitors in the Music Hall. In each case the term of service is thirty-eight weeks, and a close application is required to the work assigned. A neglect of duty is sufficient cause for a removal of the student from the position.

Requirements for Admission

The following are the requirements for admission to a course leading to the degree of Bachelor of Arts.

A diagram from which fifteen units may be selected for Freshman standing.

GROUP I English	English 3 units	Required
GROUP II Mathematics	Elementary Algebra 1 unit Intermediate Algebra $\frac{1}{2}$ unit Plane Geometry 1 unit Solid Geometry $\frac{1}{2}$ unit Plane Trigonometry $\frac{1}{2}$ unit	Two and a half units including Plane Geometry are required.
GROUP III Foreign Languages	Latin 4 units German 3 units French 3 units Greek 3 units	Five units are required, three of which must be Latin.
GROUP IV Physical Sciences	Physical Geog. $\frac{1}{2}$ or 1 unit Physics 1 unit Chemistry $\frac{1}{2}$ or 1 unit	Physics required. Also Chemistry, 1 unit, by students intending to take Chem-Bio. course.
GROUP V Biological Sciences	Botany 1 unit Zoölogy 1 unit Physiology 1 unit	One unit only may be chosen.
GROUP VI History, Etc.	Greek and Roman 1 unit Mediaeval and Modern 1 unit English 1 unit Civics $\frac{1}{2}$ unit Economics $\frac{1}{2}$ unit	One unit only may be chosen.
GROUP VII	Drawing $\frac{1}{2}$ or 1 unit Domestic Science $\frac{1}{2}$ unit Agriculture $\frac{1}{2}$ unit Book-keeping $\frac{1}{2}$ unit Commercial Law $\frac{1}{2}$ unit Commercial Geog. $\frac{1}{2}$ unit Psychology $\frac{1}{2}$ unit Methods of Teaching $\frac{1}{2}$ unit	One unit only may be chosen.

Of the above courses as outlined eleven and one-half units are required; the remaining three and one-half units may be chosen from the seven groups in whatever manner desired.

Candidates for admission should note carefully the following description of courses in order to measure up to the standard set.

ENGLISH

Requirement for 1912.

1. A thorough course in advanced English Grammar.
2. A systematic course in Composition, and the essentials of Rhetoric.

3. At least ten of the books outlined in groups I-VI.

a. Reading and Practice—Two units.

Group I. (Two to be selected.)

Shakespeare's *As you Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II. (One to be selected.)

Bacon's *Essays*, Bunyan's *The Pilgrim's Progress* Part I, *The Sir Roger de Coverley Papers in the Spectator*, Franklin's *Autobiography*.

Group III. (One to be selected.)

Chaucer's *Prologue*, Spenser's *Faerie Queen* (Book I,) Pope's *The Rape of the Lock*, Goldsmith's *The Deserted Village*, Palgrave's *Golden Treasury* (First Series) Books II and III, with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group IV. (Two to be selected.)

Goldsmith's *The Vicar of Wakefield*, Scott's *Ivanhoe*, Scott's *Quentin Durward*, Hawthorne's *The House of the Seven Gables*, Thackeray's *Henry Esmond*, Mrs. Gaskell's *Cranford*, Dickens' *A Tale of Two Cities*, George Eliot's *Silas Marner*, Blackmore's *Lorna Doone*.

Group V. (One to be selected.)

Irving's *Sketch Book*, Lamb's *Essays of Elia*, De Quincey's *Joan of Arc* and *The English Mail Coach*, Carlyle's *The Hero as Poet*, *The Hero as Man of Letters*, and *the Hero as King*; Emerson's *Essays* (selected,) Ruskin's *Sesame and Lilies*.

Group VI. (Two to be selected.)

Coleridge's *The Ancient Mariner*, Scott's *The Lady of the Lake*, Byron's *Mazeppa* and *The Prisoner of Chillon*, Palgrave's *Golden Treasury* (First Series) Book IV, with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*, Poe's *Poems*; Lowell's *The Vision of Sir Launfal*, Arnold's *Sohrab and Rustum*, Longfellow's *The Courtship of Miles Standish*, Tennyson's *The Princess*, Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, Evelyn Hope, *Home Thoughts from*

Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Herve Riel, Pheidippides.

b. Study and Practice—One unit.

This part of the requirements presupposes the thorough study of each of the following works:

Shakespeare's *Macbeth*, Milton's *Comus*, *L'Allegro*, and *Il Penseroso*, or Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

MATHEMATICS

a. Elementary Algebra, Algebra to quadratics—One unit.

1. The four fundamental operations.
2. Factoring, determination of highest common factor and lowest common multiple by factoring.
3. Linear equations, both numerical and literal, containing one, two and three unknowns.
4. Problems depending on linear equations.
5. Radicals and the extraction of the square root of polynomials.
6. Fractional and negative exponents.

b. Quadratics and Beyond—One-half unit.

1. Quadratic equations, both numerical and literal.
2. Problems depending on quadratic equations.
3. The binomial theorem for positive integral exponents.
4. The formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions.
5. Numerous problems chosen from mensuration, from physics and from commercial life.

The equivalent of Hawke's and others,
High School Algebra complete.

c. Plane Geometry—One unit.

1. The usual theorems and constructions.
2. The solution of numerous exercises, including problems of Loci.
3. The equivalent of Durell's *Plane Geometry*.

d. Solid Geometry—One-half unit.

1. The usual theorems, the properties and measurement of prisms, pyramids, cylinders and cones, the sphere and spherical triangle.
2. Applications to the mensuration of surfaces and solids.

e. Trigonometry—One-half unit.

1. Definitions and relations of the six trigonometric functions as ratios, circular measurement of angles.
2. Proofs of the principal formulas, and the transformation of trigonometric expressions by means of these formulas.
3. Solution of trigonometric equations.
4. The theory and use of logarithms.
5. The solution of right, oblique and spherical triangles with applications.

LATIN

Latin A—Three units.

A systematic course of five lessons a week extending over a period of three years is required.

The real test of the candidates fitness is based upon his ability to read simple Latin prose, to explain constructions and idioms, and to turn simple Latin sentences into prose.

He should have studied Grammar, Elementary prose composition, 90 to 120 pages of Nepos (Lives) and Cæsar (Gallic and Civil wars;) also about 40 pages of Cicero and the first four books of Virgil or its equivalent.

Latin B—One unit (optional.)

Virgil and Ovid, 6,000 to 10,000 verses or other equivalents not read in Latin A.

GREEK

1, 2 or 3 units

1. The equivalent of White's First Greek Book. Five recitations a week for at least thirty weeks. The candidates shall have read the equivalent of about eight chapters of Anabasis and show a knowledge of ordinary forms. One unit.

2. At least the first four books of the anabasis together with the ability to turn short sentences into Greek. One unit.

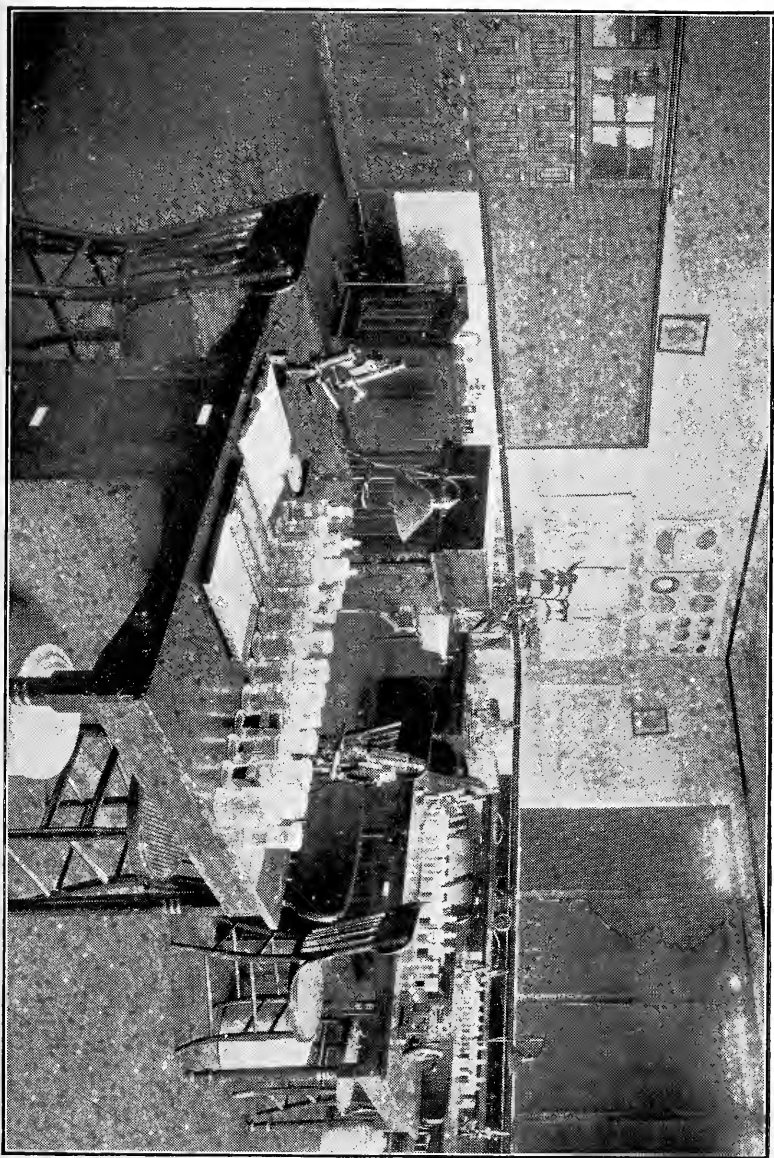
3. The translation at sight of Attic prose and of Homer, constructions, idioms and prosody and the ability to translate a short passage of connected English narrative is required. One unit.

GERMAN

a. Elementary German—Two units.

During the first year the work should comprise:

1. Careful drill on pronunciation.
2. Drill on the rudiments of grammar.
3. Abundant easy exercises in reproduction and memory work.





4. The reading of 75 to 100 pages of graduated texts from a reader. During the second year the work should comprise:

1. The reading of 150 to 200 pages of literature in the form of easy stories and plays.

2. Reproduction practice as before, both oral and written.

3. Continued drill on the rudiments of grammar.

Suitable stories and plays are as follows:

Wilhelmmi's *Einer Muss Heiraten*, Im Vaterland, Andersen's *Märchen*, Leander's *Träumereien*, Heyse's *L'Arabiata*, Hillrn's *Höher als die Kirche*, Storm's *Immensee*, Zschokke's *Der Zerbrochene Krug*, Stokl's *Unter dem Christbaum*, Baumbach's, *Der Schwiegersohn*.

b. Intermediate German—One unit.

The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry together with constant drill in reproduction and grammatical drill, with special reference to the infinitive and the subjunctive.

Suitable reading matter can be selected from the following.

Freytag's *Die Journalisten*, Fouque's *Undine*, Goethe's *Hermann and Dorothea*, Lessing's *Minna von Barnhelm*, Schiller's *Der Neffe als Onkel*, Wilhelm Tell, *Die Jungfrau von Orleans* and others prescribed by the College Entrance Examination Board.

FRENCH

a. Elementary French—Two units.

The applicant should be able to pronounce French accurately, to turn simple English sentences into French and to answer questions on the rudiments of grammar.

The first year's work should comprise the rudiments of grammar, the reproduction of natural forms of expression and the reading of 100 to 175 duodecimo pages of graduated texts.

During the second year the work should comprise:

1. Constant practice in translating into French easy variations upon the texts read.

2. Frequent oral abstracts.

3. The mastery of the use of pronouns, pronominal adjectives, of all but the rare irregular verb forms and the simpler uses of the conditional and the subjunctive.

4. The reading of 400 to 500 pages of easy modern prose in the form of stories, plays, or historical or biological sketches.

Suitable texts for the second year are:

About's "*Le roi des montagnes*;" Bruno's "*Le tour de la France*;" Mairret's "*La tache du petit Pierre*;" Mérimée's "*Colomba*;" Legonoé and

Labiche's "La cigale chez les fourmis;" Le Bédolliere's "La Mère Michel et son chat."

b. Intermediate French—One unit.

1. Constant practice in French paraphrasing.
2. Grammar in modern completeness.
3. Writing from dictation.
4. The reading of from 400 to 600 pages from suitable texts such as the following:

Corneille's "Le Cid;" Sandeau's "Le gendre de M. Poirier;" Daudet's "La Bell-Nivernaise;" Racine's "Athalie," "Andromaque" and "Esther;" George Sand's plays and stories; Sandeau's, "Mademoiselle de la Sieglière," and others.

PHYSICS

One unit.

1. The study of a standard text book as Carharte and Chute's High School Physics, or Milikan and Gale's A First Course in Physics.
2. Lecture and table demonstrations.
3. Individual laboratory work consisting of at least 30 experiments as required by the College Entrance Examination Board."
4. The course should include the following fundamental topics:
 - a. Introduction: Metric system, volume, density, weight and states of matter.
 - b. Mechanics: Fluids and solids.
 - c. Heat.
 - d. Sound.
 - e. Light.
 - f. Magnetism.
 - g. Static Electricity.
 - h. Current Electricity.

The applicant must also present an approved laboratory note book of experiments performed, together with a certificate from the teacher of Physics stating the exact character and amount of work done under his supervision.

BOTANY

One unit.

PART I. The General Principles of (A) Anatomy and Morphology, (B) Physiology, and (C) Ecology.

a. Anatomy and Morphology.

The seed, the shoot, specialized and metamorphosed shoots, the

root, specialized and metamorphosed roots, the flower, the comparative and morphological study of four or more types, the fruit and the cell.

b. Physiology.

Role of water in the plant, photosynthesis, respiration, digestion irritability, growth and fertilization.

c. Ecology.

Modifications, dissemination, crosspollination, light relations of green tissue and special habitats.

PART II. The Natural History of the Plant Groups and classification.

A comprehensive study of the great natural groups of plants. Selections may be made from the following:

a. Algae. Pleurocoecus, Sphaerella, Spirogyra, Vancheria, Fucus, Nematium.

b. Fungi. Bacteria, Rhizopus or Mucor, Yeast, Puccinia, Corn Smut, Mushroom.

c. Lichens. Physcia (or Parmelia or Usnea.)

b. Bryophytes. In Hepaticae, Radula and In Musci, Mnium.

e. Pteridophytes. In Filicineae, Aspidium or equivalent including the prothallus. In Equisetinae, Equisetum. In Lycopodineae, Lycopodium and Selaginella.

f. Gymnosperms. Pinus or equivalent.

g. Angiosperms A monocotyledon and a dicotyledon.

The applicant shall present a certified note-book of individual laboratory work of at least double the amount of time given to recitation. Special stress should be laid on accurate drawings and precise descriptions.

Zoölogy

One Unit.

1. The general natural history—including general external structure in relation to adaptations, life histories, geographical range, relations to other plants and animals, and economic relations—of common vertebrates.

Suggested types are a mammal, bird, lizard, snake, turtle, newt frog, dogfish or shark, bony fish, clam snail, starfish, earthworm, hydra, seaanemone, paramoecium.

Pupils should be familiar with orders of insects or with crustaceans, spiders and myriapods.

Actual examination of common animals with the above should be supplemented by reading giving natural history information.

Laboratory work required.

Certified note-books should be presented.

In general, the work as outlined by the College Entrance Examination Board will be accepted.

CHEMISTRY

One Unit.

The candidate's preparation should include:

1. Individual laboratory work, comprising at least forty exercises from a list of sixty or more as outlined by the College Entrance Examination Board.

2. Instruction by lecture, table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupils laboratory investigations.

3. The study of at least one standard text book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary Chemistry. Brownlee and others Principles of Chemistry or its equivalent is required.

PHYSICAL GEOGRAPHY

One unit.

a. The Earth as a Globe.

b. The Ocean.

c. The Atmosphere—including weather instruments and the U. S. Weather Map.

d. The Land.

e. Volcanoes.

f. Rivers.

g. Glaciers.

h. Relation of man, plants and animals to climate, land forms, and oceanic areas.

A note-book certified to by the teacher in charge in all cases is required for the one unit. Otherwise $\frac{1}{2}$ unit only may be offered.

DRAWING

One unit.

1. The applicant must be able to sketch with fairly steady and clean lines any figures or combinations of figures, polygons, spirals or the like.

2. He shall be able to sketch common objects such as furniture and utensils with reasonable accuracy and correctness of proportion.

3. Also, to sketch from copy, enlarging or reducing dimensions any simple object, such as a valve or title pattern.

A notebook with drawings both approved and certified to by the teacher must be presented in order to receive credit.

OUTLINE OF COURSES

Description of Courses given under Departments of Instruction.

FRESHMAN

GROUP I		GROUP II		GROUP III		GROUP IV		GROUP V	
Classical		Chemical-Biological		Mathematical-Physical		Historical-Political		Modern Language	
hrs. Greek 1b 5 Latin 1 3 Latin 2 1 Mathematics 1 4 English 1a 2 French 1, or } German 1, or } 3 Biology 1a		hrs. Biology 1a 3 Mathematics 1 4 English 1a 2 German 1 3 French 1 3 Bible 1 2		hrs. Mathematics 1 4 English 1a 2 German 1 3 French 1 3 Bible 1 2 History 1 3		hrs. English 1a 2 German 1 3 French 1 3 Latin 1 3 Bible 1 2 Mathematics 1 4		hrs. English 1a 2 German 1 3 French 1 3 Latin 1 3 Bible 1 2 Mathematics 1 4	
hrs. Greek 1b 5 Latin 1 3 Latin 2 1 Mathematics 2 4 English 1a 2 French 1, or } German 1, or } 3 Biology 1a		hrs. Biology 1a 3 Mathematics 2 4 English 1a 2 German 1 3 French 1 3 Bible 1 2		hrs. Mathematics 2 4 English 1a 2 German 1 3 French 1 3 Bible 1 2 History 1 3		hrs. English 1a 2 German 1 3 French 1 3 Latin 1 3 Bible 1 2 Mathematics 2 4		hrs. English 1a 2 German 1 3 French 1 3 Latin 1 3 Bible 1 2 Mathematics 2 4	

SOPHOMORE

GROUP I		GROUP II		GROUP III		GROUP IV		GROUP V	
Classical		Chemical-Biological		Mathematical-Physical		Historical-Political		Modern Language	
hrs.		hrs.		hrs.		hrs.		hrs.	
Greek 1c	3	Biology 1b,or }	4	Mathematics 3	3	History 1	3	English 2	1
Latin 3	3	Chemistry 1		Chemistry 1	4	English 2	1	German 2	3
English 2	1	Mathematics 3	3	Philosophy 1	3	Philosophy 1	3	French 2	3
Philosophy 1	3	Philosophy 1	3	English 2	1	Biology 1b,or }	4	History 1	3
History 1	3	English 2	1	German 2	3	Chemistry 1	1	Philosophy 1	3
German 2 or }	3	History 1	3	French 2	3	English 1b	1	Biology 1b,or }	4
French 2	2	English 1b	1	English 1b	1	Elective	6	Chemistry 1,or }	4
Bible 1	1	Elective	3					Latin 2 and 3	3
English 1b								English 1b	1
First Semester		Second Semester							
hrs.		hrs.		hrs.		hrs.		hrs.	
Greek 1c	3	Biology 1b,or }	4	Mathematics 3	3	History 1	3	English 2	1
Latin 3	3	Chemistry 1		Chemistry 1	4	English 2	1	German 2	3
English 2	1	Mathematics 3	3	Philosophy 2	3	Philosophy 2	3	French 2	3
Philosophy 2	3	Philosophy 2	3	English 2	1	Biology 1b,or }	4	History 1	3
History 1	3	English 2	1	German 2	3	Chemistry 1	1	Philosophy 2	3
German 2, or }	3	History 1	3	French 2	3	English 1b	1	Biology 1b, or }	4
French 2,	2	English 1b	1	English 1b	1	Elective	6	Chemistry 1,or }	4
Bible 1	1	Elective	3					Latin 2 and 3	3
English 1b								English 1b	1

JUNIOR

OUTLINE OF COURSES

31

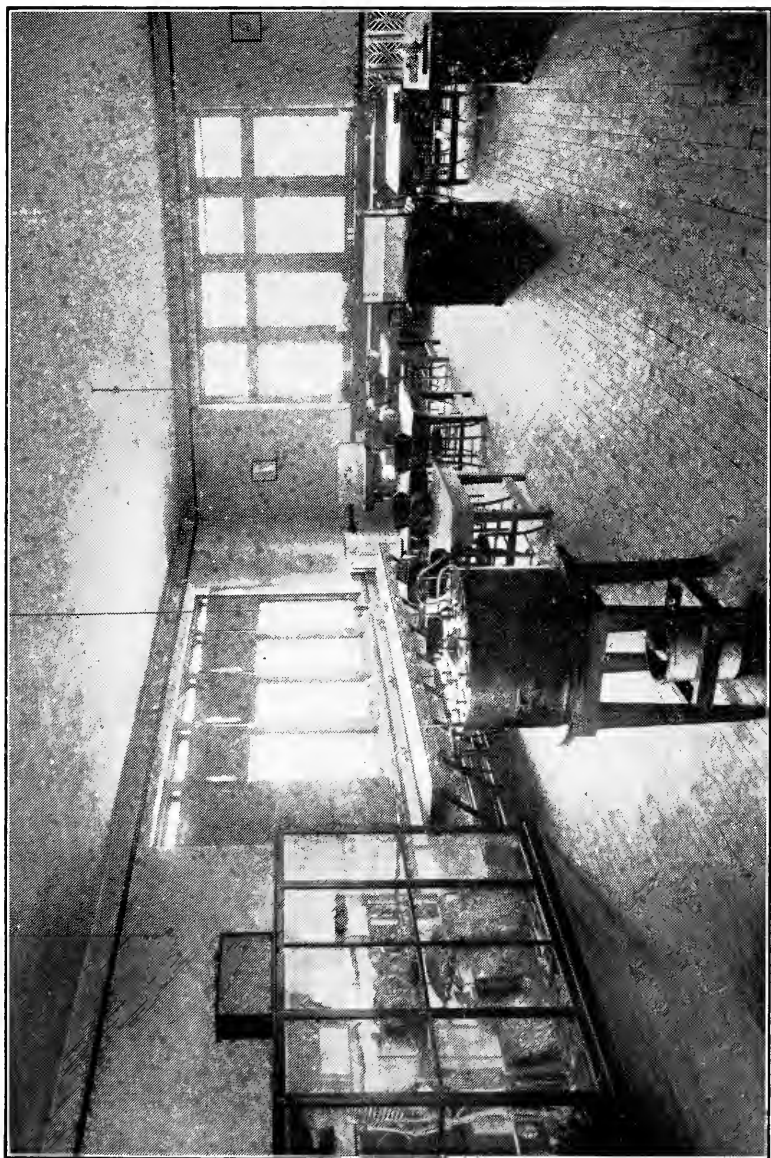
	GROUP I	GROUP II	GROUP III	GROUP IV	GROUP V
	Classical	Chemical-Biological	Mathematical-Physical	Historical-Political	Modern Language
First Semester	hrs. Greek I 3 Latin 4 2 Philos'hy 3 or 5 3 English 3 3 Economics I 3 Biology 1b, or } 4 Chemistry 1, or } Physics I	hrs. Biology 1b, or } 4 Chemistry I } Biology 2, or } 4 Chemistry 2 } Mathematics 4 3 Economics I 3 Elective 3	hrs. Mathematics 4 3 Physics I 4 Chemistry 2 4 Astronomy 4 Elective 2	hrs. History 2 3 Economics I 3 Philos'hy 3 or 5 3 English 3 3 Elective 6	hrs. English 3 3 English 4 3 German 3 3 French 3 3 Economics I 3 History 2 3
Second Semester	Greek I 3 Latin 3 2 Philos'hy 4 or 6 3 English 3 3 Biology 1b, or } 4 Chemistry 1, or } Physics I } Elective 3	Biology 1b, or } 4 Chemistry I } Biology 2, or } 4 Chemistry } Mathematics 5 3 Elective 6	Mathematics 5 3 Physics I 4 Chemistry 3 4 Elective 6	History 3 3 Economics 2 3 Philos'hy 4 or 6 3 English 3 3 Elective 6	English 3 3 English 8 2 German 3 3 French 3 3 History 3 3 Elective 3

SENIOR

	GROUP I		GROUP II		GROUP III		GROUP IV		GROUP V	
	Classical		Chemical-Biological		Mathematical-Physical		Historical-Political		Modern Language	
First Semester	hrs. Greek 2 3 Philos'hy 7 or 9 2 History 4 3 Bible 3 2 Elective 6		hrs. Biology 3, or } Chemistry 6 } Physics 1 4 Bible 3 4 Elective 2 6		hrs. Mathematics 7 3 Physics 2 4 Bible 3 2 Elective 7		hrs. History 4 3 History 5 3 Philos'hy 7 or 9 2 Bible 3 2 Elective 6		hrs. English 9 3 Philos'hy 7 or 9 2 Bible 3 2 Elective 6	
Second Semester	3 Greek 2 3 Philos'hy 8 or 10 2 History 4 3 Bible 3 2 Elective 6		} Biology 4 or } Chemistry 6 } Physics 1 4 Bible 3 4 Elective 2 6		3 Mathematics 8 3 Physics 2 4 Bible 3 2 Elective 7		3 History 4 3 History 6 3 Philos'hy 8 or 10 2 Bible 3 2 Elective 7		3 English 9 3 Philos' y 8 or 10 2 Bible 3 2 Elective 9	

For elective studies not mentioned in the outline of courses see description of courses under Department of Instruction, page 33 to 50.





DEPARTMENTS OF INSTRUCTION**Philosophy**

PROFESSOR PETERS

As there is no such thing as final authority in Philosophy every student in this department is urged to react upon both the text books to which he is referred and to the opinions submitted by the instructor. It is the primary purpose of the department to stimulate vigorous, independent thinking upon questions pertaining to Philosophy.

1. Psychology—Three hours. First Semester.

Special emphasis will be placed upon (1) the application of psychological laws to practical life, and (2) the philosophical bearing of certain psychological principles. Thus, without departing from the mode of treatment appropriate to a natural science, this course will be made to serve as a general introduction to philosophy. Text book James's *Psychology* (Briefer course.)

2. Logic—Three hours. Second Semester.

The intimate relation between Logic and Psychology will be emphasized throughout this course. From this point of view the traditional subject matter of elementary logic will be carefully discussed and the detection and classification of fallacies drilled upon. The bearings of Logic upon the problems of Philosophy will then be taken up. Text-book Creighton's *"An Introductory Logic."*

3. History of Ancient Philosophy—Three hours. First Semester.

In this course, and in its sequel, Philosophy 4, the aim will be (1) to trace the development of philosophy, pointing out what of permanent value each system, as it arose, contributed toward a final solution of the problem of the nature of being, and (2) to show the interaction between philosophic thought and the practical life of the period during which it flourished. Text-book Cushman's *"A Beginner's History of Philosophy."* Vol. I.

4. History of Modern Philosophy—Three Hours. Second Semester.

The work of this course will be critical as well as expository, and an effort will be made at reconstruction on the basis of the great systems of philosophy worked out from Decartes to Spencer. Text-book Cushman's *"Beginner's History of Philosophy."* Vol. II and Royce's *"The Spirit of Modern Philosophy."*

5. Types of Modern Philosophy—Three Hours. First Semester.

A critical discussion of Skepticism, Realism, Mysticism, Pragma-

tism Modern Science, the Philosophy of Evolution, Psycho-physical Parallelism, the New Realism, and Kantian, Fichtean, and Hegelian Idealism. This course is intended as an approach to Philosophy 6.

6. Metaphysics. Three hours. Second Semester.

This course will deal constructively with the fundamental problems of reality. Text-book Royce's "The World and the Individual," references to Taylor, Bradley and Ward.

7. Psychology of Religion—Two hours. First Semester.

The religious nature of man will be studied psychologically as manifested in childhood, adolescence, and maturity, including the phenomena of conversion and Christian growth.

8. The Philosophy of Right—Two hours. Second Semester.

This course will consist of lectures, library references, and discussions. The aim will be to sketch a Philosophy of Life in as untechnical language as possible and to emphasize its bearing on the concrete problems of daily life. The more theoretical aspects of Ethics will be, for the most part, avoided. The discussion will center about two topics (1) The inherence of change, and the consequent necessity for continual re-adjustment, in a developing universe; and (2) the Spirit of Loyalty as a criterion of conduct amid these shifting relationships. The course will be open to all students in the college and to those students in the adjunct departments who get permission from the instructor.

9. Ethics—(Theoretical)—Two hours. First Semester.

An investigation of the nature and the bases of morality.

10. Ethics—(applied)—Two hours. Second Semester.

This course is a continuation of Philosophy 9. From the standpoint of the theory worked out in the preceding part of the course there will be taken up such subjects as, the ethical significance of contemporary social and moral institutions and present day social tendencies, a critical investigation of recent forms of individualism, a discussion of the problems which grow out of progress, some studies in casuistry, etc. Text-books Mackenzie's and Muirhead's, Library References and Supplementary lectures.

11. Seminar in Philosophy—Fortnightly 7:30-9:30 P. M. Throughout the year.

This course is for graduate students and advanced under-graduates. The subjects investigated will vary from year to year, and will be determined largely by the interests of those who register for the course. Some member of the seminar will have charge at each meeting, and will read and defend a paper in which some topic, appropriate to the general subject of the year, is intensively treated. At least three papers

and a thesis will be required of each member. These papers will ordinarily contain from five to eight thousand words and the theses will be of a somewhat greater degree of elaboration.

Persons who wish to take this course, but who can not be present at the meetings, may arrange to send in their papers. Of such members, however, somewhat more work will be required than of those who regularly attend the meetings.

NOTE—Courses 1, 2 and 11 will be offered every year. The other courses will alternate as follows: 3 with 5, 4 with 6, 7 with 9, and 8 with 10. The latter of each group will be offered in 1913-14 and the former in 1912-13.

SPECIAL COURSES IN PHILOSOPHY

PRESIDENT KEISTER

B. Metaphysics—One hour and a half throughout the year.

Our fundamental conceptions are considered beginning with the notion of being. By a process of criticism contradictions are eliminated and a clear and consistent view of the world is set forth. The conclusions are valid for reason and show the value of personality human and divine.

The text-book used is Bowne's Metaphysics.

Given in 1910-11.

C. The Gospel of John—One hour and a half throughout the year.

This course is given by lecture in connection with the course in Metaphysics. It is a study of the doctrine of the Gospel of John in order to obtain a clearer view of the Person of Christ who is the center of a religious system that is consistent in itself, vital in its influence and final for faith and reason.

Given in 1910-11.

D. Theory of Thought and Knowledge—By Prof. Borden P. Bowne, a study of thought as process, a subjective activity having its forms and laws and then also as product having objective validity and leading to knowledge.

Given in 1911-12.

E. The Philosophy of Christianity—By Dr. James E. Latimer, which deals with fundamental problems of the Christian system of doctrine, being constructive in aim and orthodox in spirit. Each one hour and a half throughout the year.

List of books for reference reading: A History of Philosophy, Ueberweg; The World a Spiritual System, Snowden; The Christian Faith, Curtis; The Person of Christ, Schaff; Addresses on the Gospel of

John, St. John Conference. The Teaching of the Gospel of John, Smith; The Gospel for an Age of Doubt, Van Dyke; The Philosophy of the Christian Religion, Fairbairn; The Universal Elements of the Christian Religion, Hall; The Gospel of the Divine Sacrifice, Hall; Personality, Human and Divine, Illingworth; Personalism, Bowne.

These courses are offered for post graduate work and in exceptional cases to students who have not received the A. B. degree.

Education

PROFESSOR PETERS

1. History of Education—Three hours. First Semester.

A history of educational practices and theories based on Monroe's "Text Book in the History of Education."

2. Educational Classics—Three hours. Second Semester.

This course will include the reading, and critical discussion in class, of such educational classics as the following: Milton's Tractate, Locke's Thoughts on Education, Rousseau's Emile, Pestalozzi's Leonard and Gertrude, Spencer's Essays on Education, etc.

3. Froebel's Philosophy of Education—Three hours. First Semester.

This course will include (1) a discussion of the place of Froebel in the history of Education; (2) a careful study of his Philosophy of Education as set forth in "The Education of Man;" and (3) a criticism of Froebel's doctrines in the light of the present philosophical and scientific situation.

4. Pestalozzi, Herbart and their followers—Three hours. Second Semester.

The course is based mostly on Pestalozzi's "How Gertrude Teaches Her Children" and Herbart's "Outlines of Educational Doctrines."

5. Principles of Education—Three hours. First Semester.

A general discussion of the biological, sociological and philosophical meaning of education, and a study of its processes and agencies. Henderson's "Text-book in the Principles of Education."

6. School Management—Three hours. Second Semester.

A consideration of the practical problems involved in class room management and in school supervision.

7. Psychology of Education—Three hours. First Semester.

A study of those aspects of psychology which have a bearing upon educational practice.

8. Secondary Education—Three hours. Second Semester.

A study of the development and present status of the American secondary school system, a comparison of this system with those of Germany, France, and England, and a consideration of the main problems in such schools.

9. Methods of Teaching—Two hours. Second Semester.

A discussion, in the light of the principles worked out in the other courses in the department, of methods of instruction in the several branches. The work of the course will include visits to schools in the neighborhood. The American Teachers Series of books on methods edited by James E. Russell and published by Longman's Green and Co., will be used as texts. Methods in the Languages and History will be taken up in 1913 and in Mathematics and the Sciences in 1914.

10. Seminar in Education—Fortnightly 7:30-9:30. Throughout the year.

This seminar will be conducted in a manner analogous to that described under Philosophy 11.

NOTE—Course 1 will alternate with 3, 2 with 4, 5 with 7, and 6 with 8, the former of each group being given in 1913-14 and the latter in 1912-13.

Greek Language and Literature

PROFESSOR SHROYER

1b. Elementary Greek—Five hours. Throughout the year.

Xenophon: Four books of the Anabasis. Greek Prose.

2c. Advanced Greek—Three hours. Throughout the year.

Homer: Three books of the Iliad, scansion, sight translation, epic poetry. Greek antiquities, Greek literature and Greek prose.

1. Junior Greek—Three hours. Throughout the year.

Herodotus: Selections from several of the books are read. Review of the Greek historians and the Persian Wars.

Plato: Apology and Crito. The Athenian courts.

New Testament. Readings in the Pauline epistles.

2. Senior Greek—Three hours. Throughout the year.

Xenophon; Memorabilia; or Demosthenes: De Corona. Socrates and the Socratic schools. The Attic oration.

Sophocles: Oedipus Tyrannus; or Aeschylus: Prometheus Bound. Development of the Greek drama. Greek tragedy, comedy and theater.

3. Junior Elective Greek—Three hours. Throughout the year.

New Testament: Readings in the gospels of Mark and John and in the Pauline and Catholic epistles. The object of this course is exegeti-

cal and practical. It will include a study of the synoptic gospels and a survey of the letters of Paul.

Latin

PROFESSOR WISEWELL

1. Freshman Latin—Three hours throughout the year.

(a) Cicero: *De Senectute* or *De Amicitia*. Special work in syntax based upon the text.

(b) Livy: Book XXI and part of Book XXII. The author's style and peculiarities of syntax are studied. Roman History during the period of the Punic Wars is reviewed, Roman political procedure and religious ceremonial are carefully considered. Syntactical work.

(c) Terence: *Adelphoe* or *Phormio*. Manners and customs of the Romans. Lectures and assigned readings.

2. Latin Prose—One hour throughout the year.

Exercises in Latin prose composition based on the authors read in Latin 1. Open to students who have taken or are taking Latin 1.

3. Sophomore Latin—Three hours throughout the year.

(a) Horace: *Ars Poetica* and selections from the Odes, Epodes, Satires and Epistles. The Horatian use of metres will be carefully studied, as well as the place of Horace in Roman literature.

(b) Tacitus: *Germania* and *Agricola*. The peculiarities of Tacitus' style will be analyzed and his importance as an historian considered. Open to students who have satisfactorily completed Latin 1.

4. Latin Letter Writers—Two hours throughout the year.

Selections from the letters of Cicero and Pliny. The peculiarities of the epistolary style will be studied. The social and political environment in which each man wrote will also receive emphasis. Open to students who have satisfactorily completed Latin 3.

Romance Languages

PROFESSOR WISEWELL

1. Elementary Course—Three hours throughout the year.

French grammar and composition. Aldrich and Foster, *French Reader*; Erckmann-Chatrian, *Madame Thérèse*; Labiche, *La Grammaire*; Feuillet, *Le Roman d' un jeune homme pauvre* or their equivalents will be read.

2. Intermediate Course—Three hours throughout the year.

Grammar and composition; Kastner and Atkins, *Short History of French Literature*. Koren, *Exercises in French Composition*. Augier, *Le Gendre de M. Poirier*; George Sand, *La Mare au Diable*; Dumas, *Les Trois Mousquetaires*; Balzac, *Cinq Scènes de la Comédie Humaine*; Corneille, *Le Cid*; Racine, *Andromaque*; Molière, *Le Bourgeois Gentilhomme* or their equivalents will be read.

Open to students who have satisfactorily completed French 1.

3a French Literature of the Seventeenth Century—Three hours throughout the year.

The history of seventeenth century French literature will be studied. Comfort, *Exercises in French Prose Composition*. Corneille, *Cinna*; Racine, *Athalie*; Molière, *Les Femmes Savantes*; Warren, *French Prose of the Seventeenth Century* or their equivalents will be read.

Open to students who have satisfactorily completed French 2.

4a. Old French Literature. Phonology and Morphology. Three hours throughout the year.

The literary history of France through the fifteenth century will be studied. Selections will be read from the *Chanson de Roland*, Aucassin et Nicolette, *Le Roman de Renard*, *Le Roman de la Rose*, *Le Jeu de Robin et Marion*, Villehardouin, Joinville, Froissart, Villon, Charles d'Orléans. Old French sounds and inflections will be studied with reference to their historical connection with Folk-Latin and with Modern French. The material and methods embodied in this study will be applied to the texts read.

Open to students who have satisfactorily completed French 3a.

Students desiring to register for French 4a, are requested to arrange with the instructor before the close of the college year, that text-books may be in readiness for class use at the beginning of the autumn term. A deposit of ten dollars toward the purchase of books will be required of each student registering for this course.

Italian 1. Three hours throughout the year.

Grandgent, *Italian Grammar and composition*. Marinoni, *Italian Reader*; Manzoni, *I Prommessi Sposi* or their equivalents will be read.

Open to Juniors and Seniors.

Spanish 1. Three hours throughout the year.

Hills and Ford, *Spanish Grammar*. Prose composition; Alarcon, *El Capitan Veneno*; Palacio Vaidés, José; Pérez Galdos, *Dona Perfecta* or their equivalents will be read.

Open to Juniors and Seniors.

To alternate with Italian 1.

German Language and Literature

PROFESSOR SELTZER

1. **Freshman German**—Three hours. Throughout the year.

Literature of the 19th century. Fouqué's *Undine*; Heine's *Die Harzreise*; Freytag's *Lie Journalisten*; Scheffel's *Ekkehard*; Müller's *Deutsche Liebe*; *Deutsche Gedichte*; Wenkebach's *Composition*.

2. **Sophomore German**—Three hours. Throughout the year.

Literature of the 18th century. Representative works of Lessing, Schiller and Goethe will be read, discussed and compared.

3. **Junior German**—Three hours. Throughout the year.

General view of German Literature. Rapid reading of representative authors of each period; reading of selections from German History, Freytag's *Aus dem Jahrhundert des grossen Kriegeres*. Reports on assigned work.

4. **Middle High German**—Three hours. Throughout the year.

Wright's *Middle High German Primer*; *Ein Mittlehochdeutsches Lesebuch*; *Nibelungen Lied*; *Gundrun*; *Wolfram Von Eschenbach*, etc.

5. **Scientific German**—Three hours. Throughout the year.

Dippold's *Scientific German Reader*; *Über Batterien*—Cohn. Kuraer *Abriss der Geschichte der Chemie* will be read.

English Language and Literature

PROFESSOR JOHNSON

1. **Theory and Practice of English Composition**—Two hours. Throughout the year.

This course includes a thorough study of technique and extensive writing of short and long themes. There are recitations, lectures and private conferences.

- 1b. **Critical Exposition**—Long and short Themes. One hour. Throughout the year.

First Semester: Principles of criticism; analysis of prose essay style. Second Semester: Argumentation, translation and the analysis of the short story.

2. See *Oratory I—Public Speaking*.

3. **History of English Literature**—Three hours. Throughout the year.

This course deals with the work of all the leading authors from the earliest times to the present. Text-books: Moody and Lovett's *History of English Literature* and Manly's *English Poetry*.

4. History of American Literature—Three hours. First Semester.

This course deals with the development of American Literature and its relation to English Literature. A careful study is made of representative authors.

5a. English Literature of the Seventeenth Century—First Semester.

The object of this course is to give the student a fairly complete knowledge of the literature produced in England under Charles I, the Commonwealth, and the later Stuarts. Particular attention is paid to the poetry of Dryden and Milton.

5b. English Literature of the Eighteenth Century—Second Semester.

The object of this course is to treat in a manner as exhaustive as possible the typical writers of the Eighteenth Century. Parallel reading and essays are required.

7a. The Poetry of Chaucer—Three hours. Throughout the year.

Attention will be paid to the sources from which the poet drew his material and to the language, pronunciation and versification which he employs.

8. Prose Fiction—Three hours. Second Semester.

The history and technique of the novel are outlined and discussed. Masterpieces from each period of development are studied and analyzed.

9. Shakespeare as a Playwright—Three hours. Throughout the year.

The development of the drama from the miracle plays to Shakespeare's time is traced. Shakespeare's plays are then taken up chronologically and studied from the standpoint of theatrical effectiveness.

10. Advanced Composition—Two hours. Throughout the year.

Given whenever a class of six applies for it. 9 is a prerequisite for the short-story hour. One hour is devoted to essay-writing, argument and debating; the other to short story writing. Private conferences are required.

Mathematics and Astronomy

MATHEMATICS

PROFESSOR LEHMAN

1. Advanced Algebra—Four hours. First Semester.

Covering ratio and proportion, variation, progressions, the binom-

ial theorem, theorem of undetermined coefficients, logarithms, permutations and combinations, theory of equations, etc.

2. Plane and Spherical Trigonometry—Four hours. Second Semester.

Definitions of trigonometric functions, goniometry, right and oblique triangles, measuring angles to compute distances and heights, development of trigonometric formulae solution of right and oblique spherical triangles, applications to Astronomy.

3. Analytic Geometry—Three hours. Throughout the year.

The equations of the straight line, circle, ellipse, parabola, and hyperbola are studied, numerous examples solved, and as much of the higher plane curves and of the geometry of space is covered as time will permit.

4. Differential Calculus—Three hours. First Semester.

Differentiation of algebraic and transcendental functions, maxima and minima, development into series, tangents, normals, evolutes, envelopes, etc.

5. Integral Calculus—Three hours. Second Semester.

Integrations, rectification of curves, quadrature of surfaces, cubature of solids, etc.

6. Plane Surveying—Three hours. Second Semester.

A study of the instruments, field work, computing areas, plotting, leveling, etc.

7. Differential Equations—Three hours. First Semester.

A course in the elements of differential equations.

Prerequisite, Mathematics 3, 4 and 5. Murray.

8. Analytic Mechanics—Three hours. Second Semester.

Bowser.

Prerequisite, Mathematics 7.

ASTRONOMY

PROFESSOR LEHM/ N

1. General Astronomy—Four hours. First Semester.

The department is provided with a fine four-and-a-half-inch achromatic telescope equatorially mounted, of which the students make free use.

History and Political Science

PROFESSOR SHENK

1. **Mediaeval and Modern History**—Three hours. Throughout the year.

A general course prescribed in all the groups. Papers, special reports, and theses, based on available original sources, will be required of all students. Robinson: History of Western Europe; Readings from European History.

2. **English Economic History**—Three hours. First Semester.

The economic life and development of the English people during mediæval and modern times. Special attention will be given to the manor system, the guilds, growth of commerce, the industrial revolution, the rise of trade unions, and the relation of government to industry. Cheney: The Industrial and Social History of England; Gibbins: Industry in England.

3. **English Constitutional History**—Three hours. Second Semester.

The English Constitution and its historical development. A careful study of important documents will be made. Taswell-Langmeade: Constitutional History of England.

4. **United States Constitutional History**—Three hours. Throughout the year.

A full course covering the colonial and constitutional periods. An extensive reading course of original and secondary sources is required. Channing: Students' History of the United States; Elson: History of the United States.

5. **Political Science**—Three hours. First Semester.

A study of the Theory of the State and of the structure and province of Government. Leacock: Elements of Political Science.

6. **International Law**—Three hours. Second Semester.

A course in the fundamental principles of International Law. Much time is given to the study of important cases.

Economics and Sociology

PROFESSOR SHENK

1. **Economics**—Three hours. First Semester.

A general course in economic theory, supplemented by consideration of practical current problems. Careful consideration will be given the different points of view of the leading economists. Johnson: Introduction to Economics.

2. **Current Labor Problems**—Three hours. Second Semester.

A course devoted to a study of the important labor problems of the present day: Strikes, labor organizations, employer's associations arbitration, trade agreement, labor legislation, etc.

3. **Theory of Sociology**—Two hours. Throughout the year.

This course is intended to give the student a knowledge of the various theories of society together with the place of Sociology in the general field of learning. Part of the course will be devoted to a study of Emigration and Immigration, and the American Negro.

English Bible

PROFESSOR SHROYER

1. **Teacher Training**. Two hours. First Semester. Hurlbut.

Bible Study by Doctrines. Two hours. Second Semester. Sell.

2. **Life of Christ**. Mark as guide with references to the other gospels. Two hours. First Semester.

Life of Paul. Acts and Pauline Epistles. Two hours. Second Semester.

(This course may be taken instead of 1 at the option of the teacher.)

3. **Old Testament**. Introduction to Bible Study. Painter. Two hours. First Semester.

Scientific Confirmation of Old Testament History. Wright. Two hours. Second Semester.

Introduction to the Study of Comparative Religion. Jevons. Two hours. This course may be taken instead of either one of the above at the discretion of the teacher.

Biology

PROFESSOR DERICKSON

The courses of instruction cover four years. They are recognized as being as valuable in developing the powers of the mind as the other courses in the college curriculum, in that they develop the power of observation and thought essential to the understanding of all phases of the phenomena of human existence.

The courses have been outlined with a three-fold purpose in view.

First, to meet the demand for a general training in biology, caused by the recently established conclusion among educators, that a knowl-

edge of the principles of biology is not only a useful but an essential factor in any course of training in which social and moral questions are to be considered.

Second, to meet the demand of the high schools for college trained teachers in biology.

Third, to lay a broad foundation in the science for those who desire to pursue post graduate courses in universities and medical colleges.

Students desiring to elect a single year's work in biology are advised to elect 1—b; if two years, 1—a and 1—b or 1—b and 3 and 4, depending on the object in view. Those contemplating a career in medicine, or the profession of teaching biology or a post graduate course in biology, are urged to complete all the courses offered.

Description of Courses

1-a. Plant Biology—Four hours. Three lectures or recitations and two laboratory periods of two hours each, per week. Throughout the year. The object of the course is to give the student a broad general knowledge of the plant kingdom. The form, structure and functioning of one or more types of each of the divisions of algae, fungi, liverworts, mosses, ferns and flowering plants, are studied.

Special attention is given to the ontogeny and phylogeny of the several groups suggestive of evolution.

Experiments are performed in the physiological laboratory to determine some of the relations of plants to water, gravitation, temperature and light. Several types of seeds are studied as to their structure, germination and development. The principles of classification are learned by the analysis and identification of representatives of at least twenty-five orders of spermatophytes.

The laboratory and class room work is supplemented by frequent field trips.

Each student is supplied with a compound microscope, dissecting instruments, note and drawing materials and portfolio.

Required of freshmen in chemical-biological group. Elective for others.

Text-books: Text-book of Botany, Coulter, Barnes and Cowles; Principles of Botany, Bergen and Davis; Nature and Development of Plants, Curtis. Gray's new manual of Botany.

1-b. Animal Biology—Four hours throughout the year.

Three lectures and two laboratory periods of two hours each, per week.

The principles of biology are learned by making a careful comparative study of representatives of several phyla of animals. The amoeba,

euglena, paramecium, vorticella, sponge, hydra, starfish, earthworm, crayfish, grasshopper, mussel, amphioxus and frog are studied. A careful study is made of the embryology of the frog. The process of development is closely watched from the segmenting of the egg until metamorphosis takes place. Each student is taught the principles of technic by preparing and sectioning embryos at various stages of development. From these and other microscopic preparations the development of the internal organs and origin of tissues is studied. This is followed by a histological study of the tissues of the adult frog.

Each student is required to keep a record of all work done in the laboratory in carefully prepared notes and drawings.

For sophomores in the chemical-biological group. Elective for others.

Text-books: Parker's Zoölogy, Sedgwick and Wilson's General Biology, Holms, The Frog.

2. **Comparative Vertebrate Anatomy**—Four hours. Throughout the year. Six hours laboratory work and two conferences each week.

The course consists of the dissection and thorough study of a suction fish, a cartilaginous fish, a bony fish, an amphibian, a reptile, a bird and a mammal. Carefully labeled drawings are required of each student as a record of each dissection.

Text-books: Pratt's Vertebrate Zoölogy, Kingsley's Text-book of Vertebrate Zoölogy.

3. ***Vertebrate Histology**—Four hours (with Biology 4.) Beginning of the year to the end of the first week in March. Two conferences and six hours laboratory work per week.

The normal histology of the human body is made the basis of the class work. Each student is required to acquire a practical knowledge of all phases of histological technic.

All the tissues as well as the structure of all of the organs of the body are studied. Each student prepares about one hundred and fifty slides.

Text-book: Huber's Text-book of Histology, Bohm and Davidoff.

Elective for juniors and seniors.

4. **Embryology of Vertebrates**—(a continuation of Biology 3.) Second week in March to the end of the year. Two lectures and six hours laboratory work per week. The laboratory work is based on the development of the chick and comparisons made with that of the frog and mammal. A study is made of living embryos at various stages of development. These are later killed, prepared and sectioned by the student for the study of the development of the internal organs. Fully labeled drawings are required.

Text-book: Introduction to Vertebrate Embryology. Reese.
Elective for juniors and seniors.

5. Morphology and Histology of Plants—Four hours throughout the year. Six hours laboratory work and two hours seminar per week. The details of the structure and development of the organs appearing in all stages of the life history of typical thalophytes, bryophytes pteridophytes, gymnosperms and angiosperms will be studied.

Only those students will be admitted to this work who have shown by their interest in the work and knowledge of botany that they are capable of pursuing the work outlined with a certain degree of independence.

Prerequisite, Biology 1—a or equivalent.

Text-books: Chamberlain's Plant Histology, Goebel's Organography of Plants.

* Biology 2 and Biology 3 and 4 are given in alternate years. Biology 2 will be given in 1912-1913.

Geology

PROFESSOR WANNER

General Geology—Four hours. Second Semester.

The course includes dynamical, structural and historical geology, also some practical work in the field.

Text-book: Scott's Introduction to Geology.

Chemistry

PROFESSOR WANNER

1. General Inorganic Chemistry—Four hours. Throughout the year.

Three hours lectures and recitations and four hours laboratory work.

Non metals, metals, theoretical chemistry, a study of the fundamental principles and the technical applications of the science.

The laboratory work comprises about two hundred and fifty experiments in general chemistry, followed by some qualitative analysis.

Text-book: Remsen's College Chemistry is used in the class room and laboratory.

While the course presupposes no previous knowledge of Chemistry, it is advisable to have completed (Science E) or its equivalent.

2. Qualitative Analysis—Four hours. First Semester. One hour lecture and a minimum of eight hours laboratory work.

Pre-requisite Chemistry 1. Methods of separating and detecting the bases and acids.

The laboratory work comprises first, a study of the reactions of the general qualitative reagents on solutions of the metals. Followed by the separation and detection of the acids and bases.

The student is required to analyze a number of unknowns both in solid and liquid form.

Text-books: Dennis and Whittelsey's *Qualitative Analysis*. Parts of Prescott and Johnson's *Qualitative Analysis*.

3. Quantitative Analysis—Gravimetric and Volumetric. Four hours. Second Semester. One hour lecture and a minimum of eight hours laboratory work.

Pre-requisite Chemistry 2.

The laboratory work consists of a few simple gravimetric and volumetric determinations and a study of the chemistry of the operations involved. The determinations of the more important elements. The analyses of limestone and a few ores and alloys.

Text-book: Talbot's *Quantitative Analysis*.

4. Quantitative Analysis—Gravimetric and Volumetric—Four hours. First Semester.

Pre-requisite Chemistry 3. A continuation of Chemistry 3.

Text-book: Olsen's *Quantitative Analysis*.

5. Organic Chemistry—Four hours. Throughout the year. Two hours lectures and recitations and a minimum of eight hours laboratory work.

Pre-requisite Chemistry 1. A study of the principal compounds of carbon. The laboratory work comprises the preparation and purification of a number of organic compounds.

Text-books: Remsen's *Organic Chemistry* and Cohen's *Laboratory manual*.

6. Industrial Chemistry—Two hours. Throughout the year. Two hours lecture and recitation.

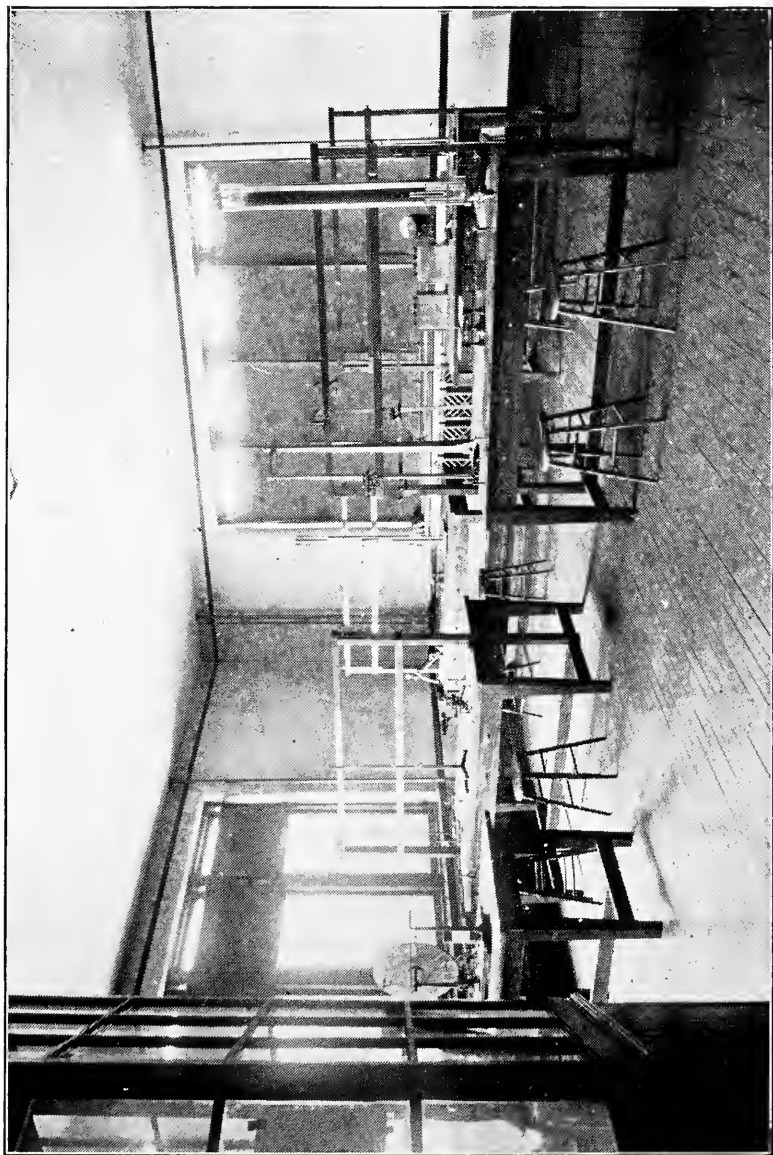
A study of the practical applications of Chemistry. The manufacture of artificial fuels, salt, explosives, pigments, paper, etc.

The course is supplemented by frequent trips to industrial plants in the immediate vicinity, on which the student is required to hand in a report.

Text-book: Thorpe's *Outline's of Industrial Chemistry*.

Course 6 alternates with course 5. Offered 1913-1914.





Physics

PROFESSOR WANNER

1. General Physics—Four hours. Throughout the year.. Three hours lectures and recitations and four hours laboratory work.

First Semester—Mechanics of solids, liquids and gases. Sound.

Second Semester—Heat, light, magnetism, and electricity.

The aim of the course is to give the student a good knowledge of college physics.

Text-books: Crew's General Physics is used in the class room and Ames and Bliss's Manuel of Experiments in Physics, also parts of Nichol's Laboratory Manual of Physics and applied Electricity in the laboratory.

2. Advanced Physics—Three hours. Throughout the year.

Pre-requisite Physics 1. Extended work in mechanics, applied electricity, etc. The character of the work will be arranged to meet individual needs.

The Academy

The Faculty

HARRY EDGAR SPESSARD, A. M., Principal
Mathematics

MAY BELLE ADAMS
English

ALVIN E. SHROYER, B. D.
Greek

HENRY E. WANNER, B. S.
Physics and Chemistry

GEORGE ELLAS WISEWELL, A. M.
Latin

LUCY S. SELTZER, A. M.
German

FLORENCE BOEHM
Drawing

JOSIAH F. REED
HELEN L. WEIDLER
HARRY E. ULRICH
CLARA KEE HORNE
Assistants

GEORGE A. WILLIAMS
Instructor in Physics

Lebanon Valley Academy

The Academy was established in 1866. For forty-six years it has cherished the ideals of full and accurate scholarship, and the development of character that fits one for the largest service to society. From its inception, college preparation has been its main purpose. But its curriculum has been well adapted to the needs of those who have entered immediately on practical life or professional study.

The Academy is an integral part of the College and profits by the proximity of students engaged in higher studies and by the ready access to the library, athletic field, literary societies, dormitory and laboratory privileges and by the opportunity to combine courses of study in the Academy with others in the College and Conservatory.

Admission

The applicant should be at least twelve years of age. It is desirable that he shall have completed the ordinary common school branches. In general it is to the student's advantage to enter in September, or less preferably at the second half year. However the applicant usually finds enough work if he should enter at any time. (See college calendar, page 2.)

Each student for admission shall bring with him a certified statement of work done in the school last attended. Credit will be given for work thus certified. Should an applicant fail to present this certificate, he shall take an informal examination in the common school branches. He will then be assigned work at the discretion of the Principal. No student will be admitted until his registration is completed

Examinations

Examinations are held at the close of each half year. At this time reports are sent to parents or guardians. More frequent reports are sent when requested by parents. In the Academy records, A, signifies excellent; B, very good; C, fair; D, low but passing; E, conditioned; F, repeat in class. An "E" record may be removed by a test on any part of the course in which the record is poor.

For this test a fee of one dollar is charged. An "F" may not be removed by a special examination.

General Information

For special tests, given on work not completed because of absences or otherwise, a fee of one dollar is charged. For special examinations a fee of two dollars is charged. Monthly reports are sent to parents or guardians which state the student's record to date and his total number of absences.

Outline of Courses

JUNIOR

*Latin a—Beginner's Latin.....	5 hours
*English a-1—English Grammar and Classics.....	4 hours
*Mathematics a—Advanced Arithmetic.....	4 hours
*Mathematics a-2—First year Algebra.....	5 hours
History a } — { Civics.....	4 hours
Science a } — { Physical Geography.....	

LOWER MIDDLE


*Latin b—Caesar and Composition.....	4 hours
*English b—Rhetoric and Classics.....	4 hours
*Mathematics c—Plane Geometry.....	5 hours
History c } — { Ancient History, 1913-1914.....	4 hours
History d } — {	

UPPER MIDDLE

*Latin c—Cicero and Composition.....	4 hours
*English c—American Literature and Classics.....	4 hours
*German a—Beginner's German.....	4 hours
Science e } — { Chemistry.....	4 hours
Drawing } — {	
History b—English History, 1912-1913.....	4 hours

SENIOR

*Latin d, or } — { Virgil and Composition.....	4 hours
German b, or } — { Grammar, Classics and Composition.....	
Greek a } — { First year Greek.....	
Science d—Physics.....	4 hours
*English d—College requirements.....	4 hours
Mathematics d—Solid Geometry.....	4 hours
*Mathematics b—Intermediate Algebra.....	

 Courses marked (*) are required of all graduates. See description of courses.

Description of Courses

A unit represents a year's study in any subject and is reckoned to be a quarter of the entire amount of work required of each student. However, the four years of English aggregate but three units.

For graduation fifteen units are required. The following courses are required of all applicants.

Latin a, b and c.....	3	units
English a, b, c and d	3	units
Mathematics a-1, a-2, c and b or d....	2½	units
History	1	unit
Science.....	1	unit
Foreign Language.....	2	units

Total.....12½ units

The remaining 2½ units may be chosen from the following list.

English A

JUNIOR ENGLISH

I English Grammar—Advanced. First Semester—Four hours.

Required of all pupils who have not had High School Grammar. Theme work is required weekly. Reading: Irving's *The Sketch Book*; Cooper's *The Last of the Mohicans*.

II Composition and Rhetoric. Second Semester—Four hours.

Theme work based on experience and assignments for reading. Reading: Scott's *Ivanhoe*; Colridge's *The Ancient Mariner*; Shakespeare's *The Merchant of Venice*; Scott's *Marmion*.

Text: Herrick and Damon's *New Composition and Rhetoric*.

English B

LOWER MIDDLE ENGLISH

I Composition and Rhetoric. Throughout the year—One hour.

Text: Herrick and Damon.

Reading and Practice. Throughout the year—Three hours.

George Eliot's *Silas Marner*; Shakespeare's *As You Like It*; Addison and Steele's *The Decoverly Papers*; Dickens' *A Tale of Two Cities*; Bunyan's *Pilgrim's Progress*; Goldsmith's *The Deserted Village*; Goldsmith's *The Vicar of Wakefield*.

English C

UPPER MIDDLE ENGLISH

I American Literature. Throughout the year—One hour.

Text: Newcomer's American Literature. Rhetoric continued.

II Reading and Practice. Three hours. Franklin's *The Autobiography*; Irving's *Oliver Goldsmith*; Hawthorne's *The House of Seven Gables*; Hawthorne's *Twice-Told Tales*; Longfellow's *Narrative Poems*; Poe's *Poems and Tales*; Whittier's *Snow Bound*.

Themes on assigned topics are required weekly.

English a, b and c, one unit.

English D

SENIOR ENGLISH—One Unit

I Composition and Rhetoric. Throughout the year—One hour.

Herrick and Damon's *New Composition and Rhetoric* concluded. English Literature.

II Reading and Study—Three hours.

Shakespeare's *Julius Caesar*; Shakespeare's *Macbeth*; Milton's *Minor Poems*; Tennyson's *The Princess*; Washington's *Farewell Address*; Webster's *Bunkerhill*; Carlyle's *Essay on Burns*; Tennyson's *Idylls of the King*.

Latin

The following Latin courses are in accordance with the recommendations made by the Commission on College Entrance Requirements in Latin, October 1909.

Latin a—Throughout the year. Five hours. One unit.

Pearson's *Essentials of Latin*, is completed. Special emphasis on the memorizing and classification of grammatical forms is required. Constant practice in turning short sentences into Latin illustrating the fundamental rules of syntax is required.

Latin b—Throughout the year. Four hours. One unit.

Selections from Caesar's *Gallic War* and *Civil War* and Nepos (*Lives*.) Thirty-six lessons in composition based upon the text together with as much sight reading as possible is required. Allen and Greenough's *Grammar*

Latin c—Throughout the year. Four hours. One unit.

Cicero's Manilian Law, Catiline I-IV, and Pro Archais. Text, Allen and Greenough Six Orations, D'Oge's Latin Composition.

Latin d—Throughout the year. Four hours.

1. Virgil's Aeneid I, II, IV, VI, Boucolics, Georgics and Ovid's Metamorphoses, Fasti and Tristia.

2. Arnold's Latin Prose Composition. One unit.

Each student is required to have a copy of Allen and Greenough's New Latin Grammar at hand for ready reference in both Latin c and Latin d.

When not offered for graduation in the Academy this course may receive college credit.

History

History a—First semester. Four hours. Civics.

Text: Maltby's American Citizen. One-half unit.

History b—Throughout the year. Four hours. English History.

Walker's Essentials of English History. One unit. Offered in 1912-1913.

History c and d—Throughout the year. Four hours.

Ancient history with special reference to Greek and Roman history and including a short introductory study of the more ancient nations and the chief events of the early middle ages, down to the death of Charlemagne. One unit. Offered in 1913-1914.

German

A Beginning German—Four hours. Throughout the year. One unit.

Bacon's German Grammar, and the reading of 75 to 100 pages of graduated texts. Frequent reproduction from memory sentences previously read.

B Second Year German—Four hours. Throughout the year. One unit.

Oral and written reproduction of the matter read in easy variations.

From 150 to 200 pages of literature are selected from the following list: Heyse's *L'Arrabbiata*; Hellern's *Höher als die Kirche*; Storm's *Immensee*; Leander's *Träumerien*; Zschokke's *Der Zerbrochene Krug*; Wilhelmi's *Einer muss heiraten*; Baumbach's *Der Schwiegersohn*.

Mathematics

A-1 Arithmetic—Four hours. Throughout the year.

A special drill in fractions, percentage, the metric system and modern business forms. Junior year.

A-2 Algebra—Five hours. Throughout the year.

Hawkes, Luby and Touton's First Course in Algebra.

B Intermediate Algebra—Second semester. Four hours.

This course must be offered for graduation by all candidates who do not offer Solid Geometry.

C Plane Geometry—Five hours. Throughout the year.

Durell's New Plane and Solid Geometry is the text-book used. Much time is spent on original problems. This course is required of all candidates for graduation. Lower middle year. One unit.

D Solid Geometry—Four hours. First semester. One-half unit.

Durell.

The above courses can aggregate three and one-half units only. Courses a-1, a-2, c and either b or d are required for graduation.

Greek

A Beginner's Greek—Four hours. Throughout the year.

White's First Greek Book.

Science

A Physical Geography—Four hours. Second semester. One-half-unit.

The Earth as a Globe, The Ocean, The Atmosphere, The Land, plains, plateaus, mountains, volcanos, rivers, and glaciers.

A summary of the relation of man, plants and animals to climate, land forms and oceanic areas.

D Elementary Physics—Four hours. Throughout the year.

Three hours lectures and recitations and two hours laboratory work.

Mechanics of solids, liquids and gases, heat, magnetism, electricity.

No previous knowledge of Physics is required for admission to this course.

Text-book: Cahart and Chute's High School Physics, Sixty experiments as outlined in the National Physics Note Book Sheets are required in the laboratory. One unit.

E Elementary Chemistry—Four hours. First semester. Two hours lectures and recitation and four hours laboratory work.

The aim of the course is to present Chemistry to the beginner in such a way as to enable him to grasp the fundamental principles and to help him to secure a working knowledge of the science in the laboratory.

Text:book: First Principles of Chemistry by Brownlee and others, also Laboratory Exercises to accompany same.

Geometrical Drawing

Four hours. First semester.

Morris' Geometrical Drawing. Geometrical figures, reconstruction of figures to a given scale, construction of scales to any given unit, projective representation of plane and solid figures, etc.

The course counts one-half unit.

Election of Studies

There is considerable room for election of courses that have a special value to students intending to specialize.

The Principal advises students what subjects are fundamental to professional and engineering courses.

Graduation

The required credit for graduation, as outlined in the foregoing courses, is fifteen units, provided that the student shall have completed at least the three units of Mathematics, the three units of English, three units of Latin, two units of German, one unit of Science, and one unit of History. If the candidate desires to enter Lebanon Valley College he shall arrange his work so as to meet the entrance requirements for the several courses.

Sub-Preparatory Course

Sometimes students of mature age come to us not fully prepared to enter the Academy. They have for various reasons attended school but

a short time and find it embarrassing to enter the public schools with scholars so much younger than themselves. For these we make provision. However, at least sixteen hours of regular Academy work is required.

Facts to be Considered

A one hundred dollar scholarship is awarded each year to the Academy graduate who has, according to the vote of the Faculty, made the best class record and deported himself in accordance with the regulations.

Academy students are admitted to all social privileges of the College. Excellent opportunities are offered for self improvement in the Literary societies and Christian associations.

Conservatory
of Music

Faculty

EDWIN E. SHELDON, Mus. M.

Professor of Pianoforte, Organ, Counterpoint, Fugue

IDA MANEVAL SHELDON, Mus. B.

Pianoforte, Harmony, Ear Training

HARRIET LADD MARBLE

Voice, Harmony, Musical History

EDITH FRANTZ MILLS

Voice

PHILO A. STATTON

FREDERICK W. LIGHT

Violin

LUCY S. SELTZER, A. B.

German

GEORGE ELLAS WISEWELL, A. M.

French

FALBA L. JOHNSON, A. M.

English

MAY BELLE ADAMS

Oratory

FLORENCE S. BOEHM

Painting, Drawing

Location and Equipment

The Engle Music Hall is a handsome three-story stone structure. It contains a fine auditorium with large pipe organ, director's room, studios, practice rooms, waiting and writing room for students' use, large society rooms, lavatories, etc. The whole building is lighted by electricity, and heated by steam, and designed and furnished with a view to having it complete in every respect for the study of music in all its branches. A complete musical education from the very first steps to the highest artistic excellence may be secured. The director will use every effort to obtain positions for those students who have finished the courses, and who may wish to teach or perform in public.

Object

The department has for its object, the foundation and diffusion of a high and thorough musical education. The methods used are those followed by the leading European conservatories. The courses are broad, systematic, progressive, and as rapid as possible, and the conservatory offers the means for a complete education in musical art at a moderate cost.

Description of Courses

I. PIANOFORTE

The course in Pianoforte is divided into five divisions; Sub-Freshman, Freshman, Sophomore, Junior and Senior.

The course marked out, must, however, necessarily be varied according to the ability and temperament of the pupil. Many works must be studied by all, but there is much that may be essential for one student and not at all necessary for another. Individual instruction only is given.

A system of technics is used that is in line with the most approved methods. Special attention is paid to the development of a true legato touch and a clear, smooth technique. The use of the pedal so much neglected is emphasized. At the same time expression and interpretation are not neglected. Technical and theoretical ability are worthless, except as it enables the performer to bring out the beauties and meaning of the composer.

The Virgil Practice Claver, which is now generally recognized by

the leading teachers and artists of the day as an important aid in the development of technique, has been introduced.

Memorizing music is required of all students. It is a great acquisition to be able to perform a number of selections from memory.

Sight Reading—This, although to a certain extent a natural gift, can be greatly improved by systematic work. One who can read well has all music at his command, while a poor reader has but the few pieces which may have been learned.

Practice—Special effort is made to teach pupils how to practice. Difficult places are pointed out and the students are taught how to learn them in the quickest and most thorough manner. Quality is of more value than quantity in practice.

Ensemble Playing—It is impossible to overestimate the value of thorough training in duet, trio and quartette playing. Students are given drill in these as well as in accompaniment playing.

II.—VOCAL MUSIC

The basis of all music studies should be vocal music. Singing develops the musical ear and leads to a discernment of tone color without which the fundamental principles of technique and touch on the piano-forte cannot be obtained.

The method used is largely that of the Italian schools, but no one method is employed exclusively. The development of a pure tone and an easy and natural control of the voice in singing is the end which is sought. Correct breathing, intonation, attack, legato, accent, phrasing and pronunciation are features of technical drill. At the same time naturalness and an artistic style of singing are constantly urged upon the student.

III.—THE ORGAN

The churches of our country are making an increasing demand for well trained organists. The organ is no longer looked upon as an instrument solely for accompaniments and church use, but has taken its place among solo instruments and gained a distinct recognition from the music-loving public.

A large field, therefore, is open to the student of the Organ. The work as outlined aims to provide a thorough training in all that pertains to a mastery of the organ for church or concert use. A two-manual Möller pipe organ is used in the Conservatory.

IV.—THE VIOLIN

Among the stringed instruments, the Violin stands as one of the

oldest and has always been admired for its beautiful and thrilling strains.

The musical possibilities within the compass of the violin are marvelous and unexcelled by any other instrument. The best artists of the olden and modern times were skillful on the violin, and it appeals to those of the finest musical taste today.

Nowhere in English literature do we find a nobler or more glowing tribute to the violin than is the little poem penned by our own immortal "Autocrat," where he places the violin among the highest order of musical instruments.

V.—THEORETICAL MUSIC

Theoretical studies are essential to rapid and comprehensive sight reading and to excellence in the higher grades of music. Good pedaling depends on a knowledge of harmony, and memorizing is greatly facilitated by it.

An intelligent insight into the foundation, upon which rests the art of music, gives interest to the pupils in their playing and singing and makes them musicians, as well as performers.

Recitals

Students' Thursday Evening Recitals—At least twice each term a recital is given in which students, who have been prepared under the supervision of the instructors, take part. These recitals furnish incentives to study and experience in public performance.

Students' Recital Class—Students who are not sufficiently advanced to appear in the Thursday Evening Recitals are given experience in public performance in the Students' Recital Class. These classes are not open to the public. Rules governing Concert Department are brought to the attention of the students and each performer shown what is expected of him or her when before an audience. The result is a smoother and more satisfactory appearance in the Evening Recitals when assigned to such work.

Artist Recitals—Not less important than the daily class room work is the opportunity afforded students of hearing the representative works of the great masters performed by artists of recognized ability of this and foreign countries. These recitals have met with much favor and enthusiasm among the students and citizens.

Senior Recitals—Each candidate for graduation shall give a public recital during the last year.

OUTLINE OF COURSES LEADING TO DIPLOMA

	FALL TERM	WINTER TERM	SPRING TERM
Freshman	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin
	Grecian History C	Roman History D	Roman History D
	English B	English B	English B
	Practice, 4 hours daily	Practice, 4 hours daily	Practice, 4 hours daily
	hrs. 1 3 5 10	hrs. 1 3 5 10	hrs. 1 3 5 10
Sophomore	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin
	Harmony (Elementary)	Harmony (Chadwick)	Harmony (Chadwick)
	Musical History	Musical History	Musical History
	English C	English C	English C
	Practice, 4 hours daily	Practice, 4 hours daily	Practice, 4 hours daily
	hrs. 1 2 2 3 10	hrs. 1 2 2 3 10	hrs. 1 2 2 3 10
Junior	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin
	Harmony (Chadwick)	Ear Training	Ear Training
	Theory of Music (Elson)	Theory and Mus. Form	Theory and Mus. Form
	German A	German A	German A
	Practice, 4 hours daily	Practice, 4 hours daily	Practice, 4 hours daily
	hrs. 1 2 2 4 10	hrs. 1 2 2 4 10	hrs. 1 2 2 4 10
Senior	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin	Piano, Voice, Pipe Organ or Violin
	Simple Counterpoint	Simple Counterpoint	Double Counterpoint
	Psychology of Music	Psychology of Music	(Senior Recital)
	Sight Playing	Sight Playing	Sight Playing
	Practice, 4 hours daily	Practice, 4 hours daily	Practice, 4 hours daily
	hrs. 1 2 2 1 10	hrs. 1 2 2 1 10	hrs. 1 2 4 1 10

* Number of hours credit.

Conservatory students rooming in the dormitories are required to take not less than 15 hours work per week, one-hour practice on piano or organ counting as one-half hour credit.

Candidates for graduation in piano shall have taken at least three terms in voice or organ. For graduation in voice or violin the student shall have at least three terms in piano. For organ the Sophomore year is required.

Certificates

REQUIREMENTS FOR CERTIFICATES

Complete course in pianoforte or in any of the other subjects, viz: voice, violin, harmony, theory, or history.

Fee for certificate, \$2.50.

Degree

REQUIREMENTS FOR DEGREE (Mus. B.)

Candidates must already have taken a diploma including theoretical course outlined on page 66.

Must have satisfactorially completed one year's work in Canon, Fugue and original composition.

Fee for degree, \$10.00.

Tuition

PIANO OR VOICE

Fall term.....	2 lessons per week.....	\$22 50
Fall term.....	1 lesson per week.....	11 25
Winter term.....	2 lessons per week.....	17 25
Winter term.....	1 lesson per week.....	9 00
Spring term.....	2 lessons per week.....	15 00
Spring term.....	1 lesson per week.....	7 50

SENIOR AND JUNIOR YEARS

Fall term.....	2 lessons per week.....	30 00
Fall term.....	1 lesson per week.....	15 00
Winter term.....	2 lessons per week.....	23 00
Winter term.....	1 lesson per week.....	12 00
Spring term.....	2 lessons per week.....	20 00
Spring term.....	1 lesson per week.....	10 00

PIPE ORGAN

Fall term.....	2 lessons per week.....	30 00
Fall term.....	1 lesson per week.....	15 00

Winter term.....	2 lessons per week.....	23 00
Winter term.....	1 lesson per week.....	12 00
Spring term.....	2 lessons per week.....	20 00
Spring term.....	1 lesson per week.....	10 00

HARMONY, MUSICAL HISTORY, EAR TRAINING, THEORY OR PSYCHOLOGY OF MUSIC

Fall term.....	2 lessons per week.....	10 00
Winter or Spring term....	2 lessons per week.....	8 00
Private Lessons each.....		75

COUNTERPOINT, CANON OR FUGUE

Fall term.....	2 lessons per week.....	12 00
Winter or Spring term....	2 lessons per week.....	10 00

SIGHT PLAYING OR SIGHT SINGING

Fall term.....	1 lesson per week.....	5 00
Winter or Spring term....	1 lesson per week....	4 00

A charge of seventy-five cents for Fall term and fifty cents for Winter or Spring term will be made for use of Sight Playing Musical Library.

	FALL TERM	WINTER OR SPRING TERM
For use of instruments: Piano, one hour		
per day.....	\$3 00	\$2 50
Each additional hour.....	1 50	1 25
Pipe Organ, one hour per day.....	10 00	9 00

Students taking a full music course are charged a matriculation fee of \$3.00 for the year, payable in advance. This fee entitles student to all privileges of the College.

Students taking piano, organ, or voice only are charged a matriculation fee of \$1.00 payable in advance.

Pipe organ students must pay at the rate of 20 cents an hour for organ blower when motor is not in use.

Fee for graduation diploma, \$6.00.

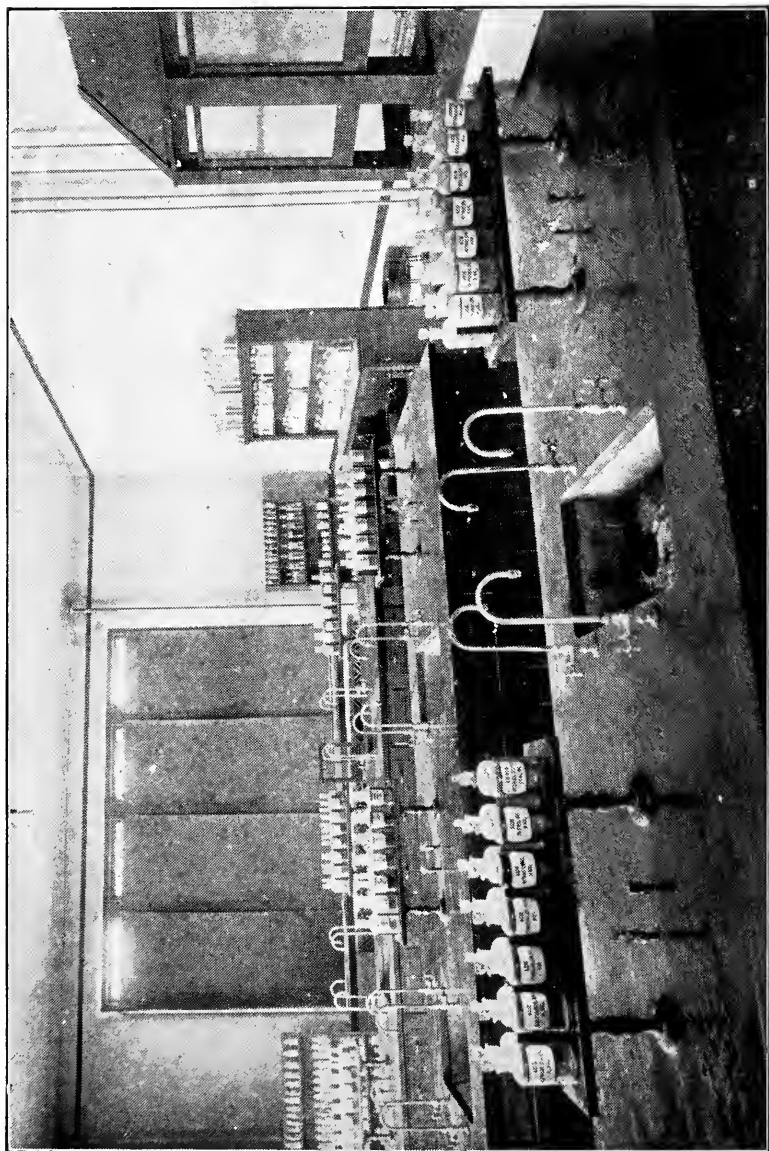
RULES AND REGULATIONS—No reduction is made for absence from the first two lessons of the term, nor for a subsequent individual absence. In case of long continued illness the loss is shared equally by the College and the student.

All tuition is payable in advance.

Pupils may enter at any time, but for convenience of grading, etc., the beginning of each term is the most desirable time.

All sheet music must be paid for when taken.





No pupil is allowed to omit lessons without a sufficient cause.

Reports showing attendance, practice, and improvement in grade, will be issued at the close of each term.

For all further information as to any particular course, or combination of courses, rooms, boarding, etc., address

DIRECTOR OF THE CONSERVATORY,
LEBANON VALLEY COLLEGE,
ANNVILLE, PA.

School of Oratory

Oratory and Public Speaking

PROFESSOR ADAMS

The work of this department is primarily personal culture, the highest development of the personality of the student. "The development of the art of oratory is the development of the orator himself."

The course in Oratory affords opportunity for those who wish to develop their powers of expression either as interpreters or creative thinkers, through the interpretative study of the finest in literature. As the interpretation and adequate expression of the literature demands a high degree of mental activity at the moment of speech, and the student must think and feel with the author, his mental and spiritual powers are quickened with every step, and his progress tested by his ability to move his audience, the class.

The course requires two years of study of prescribed work. Upon the completion of the studies a certificate is awarded.

Students entering the regular course must have had a high school course or its equivalent.

General Outline

1. Public Speaking.
Orations, Debate, Extemporaneous Speaking, Impersonations.
2. Voice Training.
Vocal Technique, Placing, Tone Color.
3. Literary Interpretation.
Evolution of Expression; Laws of Art; Poetic Interpretation.
4. Dramatic and Platform Art.
Shakespeare, Dramatic Training, Deportment, Private Lessons.
5. Physical Training.
Expressive Physical Culture, Gesture, Response.
6. English and Literature.
Rhetoric, Composition, History of English Literature.
7. Pedagogy.
Psychology, Normal Training, Methods.

Description of Courses

1. Public Speaking. (English 2.) 1 hour.
Required of Sophomores. Open to others at discretion of instructor.

This aims to give the student practice in the fundamentals of oral expression. Physical and voice exercises for securing poise, freedom and unity, breathing and articulation, placing and radiation of tones.

Study of the lives and methods of great orators. Drill in interpreting and delivering orations and other forms of literature.

Extemporaneous speaking, arguments, occasional speeches and original orations. Impersonation, characterization, dramatic study and presentation of scenes from some of Shakespeare's plays.

2. Voice Training. Exercises for breath control, for freeing of voice by proper placing and direction of tone, purity, flexibility, radiation, resonance, and power; pitch, volume and inflection in emphasis. Tone color and form, ideal and imaginative qualities in tone. Diction.

Given daily throughout course.

3. Literary Interpretation. Development of the principles of Public Address.

a. Evolution of Expression. Two hours. Study of selections from great orators, essayists, poets and dramatists. Practical drill work before class for developing power of student through application of principles to his individual needs. Personal criticism and guidance to bring out originality of student.

b. Perfective Laws of Art. Two hours. Expressive study of different forms of literature with particular attention to the laws of art which logically follow the sixteen steps of the Evolution. Dramatic work.

(Two hours credit in college is given for each of above courses, *a* and *b*, when taken with 1 private lesson a week.)

c. Poetic Interpretation. One hour. Special interpretative and critical study of the great poets, with presentation and criticism before class, to acquaint student with masters of literary art, to develop appreciation of the music and suggestiveness of poetry, and imaginative and poetic elements in work.

Attention is given to the choice, adaptation, and abridgement of selections for public reading.

4. Dramatic and Platform Art. One hour. Interpretation and dramatic study of Hamlet, Macbeth, Othello, Merchant of Venice, Julius Cæsar and As You Like It." Presentation of prepared scenes for criticism. Practical work in stage business, deportment and grouping.

Platform deportment, correct bearing and presentation before audience. Platform methods and traditions. Pantomime, study of emotions. freedom and responsiveness in bodily expression.

Sketches and plays are given from time to time during the year,

which with the annual college play provide special dramatic training for many.

Private lessons, with attention to the special needs of the students, either in overcoming habits, or in personal development and repertoire, are given throughout the course to supplement the class work. More time is given to selections, arrangement of programs, writing introductions, etc. One hour a week.

5. Physical Training. Exercises for securing poise, bearing, freedom and ease in movement; to gain control over body and render it responsive to thought. Response in bearing and dramatic attitudes. Gesture drill for definite expressions through different realms.

Given daily throughout course.

6. English and Literature.

Composition and Rhetoric, (English 1.)

English 1-b, and English Literature (English 3.)

7. Psychology. Philosophy 1.

Normal Training and Methods. One hour. Practice in teaching and class management. Under the direction and criticism of the instructor the Seniors conduct class work, lecture upon principles, and discuss their application.

Recitals. A recital is given at least once a term for which the students are carefully prepared. These afford the students public platform practice by which they gain confidence and experience.

Each Senior is required to adapt and arrange a program for a public recital, from some piece of literature approved by the instructor.

Tuition

All tuition is payable in advance. No reduction is allowed for absence for the first or second week of the terms, nor for lessons missed during the term except in case of protracted illness.

Regular course, Fall term \$30, Winter and Spring terms each \$25.

Special courses in Literary Interpretation a and b, with 1 private lesson a week. Fall term, \$15, Winter and Spring terms, each \$12.50.

Private lessons, \$1.00.

Class work in Physical Culture, per term \$3.50.

Other classes will be formed when there is a call for any special line of work.

Fee for certificate, \$2.50.

School of Art

FLORENCE S. BOEHM, INSTRUCTOR

Course of Study for Certificate

First Year—Drawing, sketching in pencil of various familiar subjects, and drawing from geometric solids, good examples of proportion and perspective, and the principles of light and shade.

PAINTING—Flowers, fruit and leaves, models, casts and familiar objects. Elementary original composition.

MOEHLING—Fruit, vegetable forms and leaves from casts and nature; animals from the cast and prints. Elementary original composition.

Second Year—Charcoal drawing from casts of heads. Painting in water colors and pastels from groups of still life, interiors, decorative subjects, flowers, draperies, and out-of-door sketching.

Yhird Year—Sketching from life. Painting in oils from still life and nature. Wash drawings in ink, water color, historic ornament. Studies in color harmony.

Teacher's Class—Principles and methods of drawing, modeling, blackboard drawing, lettering, brush work, sketching from life and water color.

Saturday work is offered for teachers and children who cannot take work during the week.

Keramics—Classes in china painting are instructed by the latest methods in conventional and naturalistic treatment. The china is fired in the institution, giving students an opportunity of learning how to fire their own china.

Miniature—Miniature painting on ivory.

Students who do not desire the certificate course may take special work along any line preferred.

Art Exhibit

During commencement week an exhibit of some of the work done in the department is held in the studio, to which all visitors are welcomed and entertained by members of the department.

Expenses

	FALL TERM	WINTER TERM	SPRING TERM
TUITION—One lesson a week.....	\$10 00	\$ 8 00	\$ 8 00
Two lessons a week.....	16 00	12 00	12 00
Children's beginning class.....	2 50	2 00	2 00
Children's advance class.....	4 00	3 00	3 00
Special lessons.....75 cents each.			
Matriculation Fee.....			\$1 00

REGISTER OF STUDENTS

College

POST GRADUATE

Buddinger, David D., A. B.....	Lebanon
Burtner, Edwin O., B. S.....	Palmyra
Daugherty, S. F.....	Myersstown
Hershey, I. Moyer, A. B., B. D.....	Lancaster
Miller, Harry E., A. B., B. D.....	Lebanon
Road, Hiram F., A. B.....	Highspire

SENIORS

Beckley, Arthur S.....	Annville
Butterwick, Oliver.....	Lebanon
Carmany, Earle H.....	Annville
Grimm, Samuel O.....	Red Lion
Harnish, Claire F.....	Mechanicsburg
Hensel, Forest Stanley.....	Lykens
Ischy, John W.....	Lebanon
Keister, Donald C.....	Annville
Kilmer, Edna Ruth.....	Reading
Lau, Lizzie Agnes.....	York
Leibold, Titus J.....	Reading
Light, Carrie S.....	Jonestown
Lowery, Ira D.. ..	Harrisburg
Miller, Virginia.....	Lebanon
Plummer, Samuel Baechtel.....	Hagerstown, Md.
Reed, Josiah F.....	Lebanon
Rettew, Chester E.....	Columbia
Schell, Esther Naomi.....	Myerstown
Seltzer, Nellie.....	Lebanon
Smith, Charles C.....	Red Lion
Thomas, Norman B. S.....	Hagerstown, Md.
Vogt, Paul M.....	Prescott
Weidler, Helen Lura.....	Royalton
White, Charles G.....	Annville
Wingerd, Guy.....	Chambersburg

JUNIORS

Boughter, Ezekiel Kephart.....	Oberlin
Christeson, Florence E.....	Annvile
Clippinger, Florence E.....	Shippensburg
Heffelfinger, Victor M.....	Annvile
Horne, Clara Kee.....	Red Lion
Klinger, Landis R.....	Williamstown
Lehman, Edith Marie.....	Annvile
Leininger, John F.....	Chambersburg
Light, Boaz G.....	Avon
Mulhollen, Victor D.....	Wilmore
Myers, Cora Virginia.....	Ephrata
Potter, Ivan K.....	Long Island City,
Ressler, Ivan K.....	Shamokin [N. Y.
Richie, Gustavus Adolphus.....	Shamokin
Roberts, Palmer F.....	Annvile
Spessard, Lottie Mae.....	Annvile
Sherk, John E.....	Jonestown
Uhrich, Clarence H.....	Hershey
Ulrich, Charles Y.....	Manheim
Ulrich, Harry Edgar.....	Harrisburg
Wert, Mark H.....	Annvile
Williams, George Albert.....	Annvile
Yarkers, Edna E.....	McAlisterville
Zimmerman, Sara Esther.....	Shamokin

SOPHOMORES

Arndt, Charles H.....	Allentown
Bachman, Catharine B.....	Annvile
Charleton, Harry Hayward.....	Lowell, Mass.
Gruber, David Augustus.....	Annvile
Harnish, Leray Bowers.....	Carlisle
Hayes, Warren H.....	Everson
Kreider, Henry Horst.....	Annvile
Landis, Edgar M.....	Myerstown
Lyter, John Bowman.....	Harrisburg
Meyer, Elizabeth May.....	Annvile
Mutch, C. Edward.....	Millersburg
Reddick, D. Leonard.....	Walkersville, Md.
Risser, Blanche.....	Campbelltown
Rodes, Lester A.....	Wormleysburg
Schmidt, Carl Frederic.....	Lebanon

REGISTER OF STUDENTS

79

Shearer, Frank.....	Harrisburg
Smith, Edward H.....	Annville
Snively, Henry E.....	Lebanon
Strickler, Paul L.....	Lebanon
Stager, William S.....	Lebanon
Urich, Mary Josephine	Annville
Walter, John Allen.....	Lebanon
Weidler, Russell Merwyn.....	Royalton
Young, David Edward.....	Manheim
Zimmerman, David Ellis.....	Annville

FRESHMAN

Bender, Harry M.....	Annville
Boltz, Ammon Light	Lebanon
Bowman, Paul J.....	Middletown
Brightbill, Hellen E.....	Annville
Carl, William C.....	Tower City
Eby, Ira Clyde.....	Lebanon
Engle, Ruth V.....	Hummelstown
Engle, Ruth E.....	Palmyra
Engle, LaRene.....	Hummelstown
Groh, Samuel B.....	Lickdale
Groh, Sara M.....	Lebanon
Houser, Ethel Louise.....	Baltimore
Irwin, Mary Louella.....	Harrisburg
Jamison, Verling W.....	Annville
Jones, John O.....	Shamokin
Kaufman, Leroy.....	Tower City
Lerew, John William.....	Dillsburg
Light, Raymond.....	Annville
Light, Earl O.....	Annville
Ligan, R. Franklin.....	Steelton
Lyter, Thomas B.....	Harrisburg
McNelly, Willis W.	Pottstown
Mentz, Florence C.....	York
Miller, Luther.....	Lebanon
Morrison, John E.....	Steelton
Oleweiler, Harold L.....	York
Peters, Howard L.....	Steelton
Shepley, Charles Lawrence.....	Harrisburg
Smith, Grace N.....	Shoemakersville
Snively, Carl G.....	Danville

Statton, Philo A.....	Hagerstown, Md.
Stengle, Faber E.....	Oberlin
Stickell, Ralph Walter.....	Waynesboro
Weaver, Alvin L.....	Annville

SPECIAL STUDENTS

Becker, William Harvey.....	Annville
Boger, Anna E.....	Lebanon
Brenneman, Curvin E.....	Windsor
Deitzler, Jonathan C.....	Fredricksburg
Garver, H. B.....	Middletown
Gibble, Phares B.....	Annville
Goss, Myra.....	Hummelstown
Hallman, Blanche.....	Lebanon
Harnish, Abraham H.....	Lancaster
Leister, J. Morris.....	Cocolmus
Miller C. Wallace.....	Lebanon
Shoop, Virginia C.....	Halifax
Shoop, Caroline C.....	Halifax
Spangler, Abner C.....	Annville
Turby, Myrle Esther.....	Palmyra
Walcott, Ira S.....	Tremont

ACADEMY

Arndt, Raymond H.....	Columbia
Blouch, Gideon L.....	Annville
Brooks, Oliver R.....	Lancaster
Bashore, David.....	Hummelstown
Deitzler, Jonathan C.....	Fredericksburg
Denlinger, Harry A.....	Intercourse
Dubble, Anna I.....	Myerstown
Dunham, J. H.....	Lebanon
Ellis, Miriam R.....	Jonestown
Engle, Allen B.....	Palmyra
Ernst, Ira Sankey.....	Lemaster
Fake, Norman I.....	Annville
Fake, A. D.....	Jonestown
Fernsler, Esther E.....	Palmyra
Gibble, Phares B.....	Annville
Gruber, E. Viola.....	Campbelltown
Hartz, Robert E.....	Palmyra
Haverstock, George M.....	New Cumberland
Herr, Nathan.....	Annville

REGISTER OF STUDENTS

81

Hetrick, Herman E.....	Union Deposit
Hoffer, Russell E.....	Hummelstown
Kreider, Irwin Victor.....	Palmyra
Kreider, I. J.....	Lebanon
Krenz, Oscar E.....	Dillsburg
Leister, J. Maurice.....	Cocolamus
Leister, Lahman I.....	Cocolamus
Light, Ralph B.....	Fontana
Light, Robert R.....	Lebanon
Light, Mark Y.....	Lebanon
Long, Harry Shupe.....	Wilmore
Long, David Mason.....	Annville
Longenecker, C. R.....	Palmyra
Lynch, Clyde A.....	Harrisburg
McClure, Robert P.....	Boiling Springs
McConel, William.....	Portage
Mathias, Josephine S.....	Highspire
Medsker, Abner D.....	Pittsburg
Medsker, Chalmer.....	Pittsburg
Meyer, Allen B.....	Annville
Myers, Vera F.....	Longsdorf
Miller, C. Wallace.....	Lebanon
Mills, Mary C.....	West Decatur
Mowery, John D.....	Chambersburg
Rine, Sedie S.....	Hoffer
Risser, Harold.....	Campbelltown
Schwalm, Clarence W.....	Lebanon
Schaeffer, Harry E.....	Lebanon
Shannon, J. S.....	Jonestown
Shoop, Virginia C.....	Halifax
Shoop, Caroline C.....	Halifax
Snyder, Mabel E.....	Lebanon
Weaver, Elta Marie.....	Annville
Wrightstone, Harold K.....	Mechanicsburg

CONSERVATORY OF MUSIC

SENIORS

Diehm, Meda May.....	Penryn
Fry, Anna Alma.....	Palmyra
Gingrich, Katharine May.....	Palmyra
Light, Sara Marion.....	Lebanon
Spayd, Mary Alice.....	Annville
Strickler, Sara Kathryn.....	Lebanon

JUNIORS

Bachman, Ora B. (Organ).....	Annville
Behney, Myrl.....	Lebanon
Ellis, Miriam Ruth.....	Jonestown
Heindel, Velma Lucretia.....	Red Lion

SOPHOMORES

Botts, George Frederick.....	Elizabethville
Light, Mary Lydia.....	Annville
Myers, Vera Fishburne.....	Longsdorf
Painter, Mary Elizabeth.....	Hershey
Shanaman, Mabel Ada.....	Richland

FRESHMAN AND SPECIALS

Albright, Ruth.. ...	Lebanon
Arnold, John Frederick.....	Lickdale
Berger, Grace Catherine.....	Lebanon
Bomberger, Alice May.....	Palmyra
Bittner, Mrs. O. R.....	Grantville
Bangser, Bertha.....	Lebanon
Bowman, Harry.....	Annville
Bachman, Harry.....	Annville
Bachman, Paul.....	Annville
Bodenhorn, Elwood.....	Annville
Bomberger, Mattie.....	Annville
Brightbill, Helen.....	Annville
Daugherty, Ethel Margaret.....	Elizabethtown
Detweiler, Ruth.....	Palmyra
Denlinger, Ethel May.....	Intercourse
Davidson, Margaret Ethel..	Bellwood
Deibler, John Q.....	Annville
Ely, Naomi Ruth.....	Hagerstown, Md.
Engle, Ruth Elizabeth.....	Palmyra
Frantz, Suzanne Gutelius.....	Lebanon
Grimm, Mrs. S. O.....	Red Lion
Gingrich, Edith A.....	Annville
Hammond, Nora Frances.....	Hagerstown, Md.
Horn, John.....	Annville
Horn, William.....	Annville
Johnson, Falba Love.....	New York City
Kreider, Elizabeth May.....	Palmyra
Kershner, Maude Eva.....	Shoemakersville

REGISTER OF STUDENTS

83

Kuntz, Ernestina.....	Lebanon
Leitheiser, Margaret.....	Hershey
Landis, Edna Grace.....	Hershey
Louser, Marie.....	Lebanon
Maulfair, Mary Elizabeth.....	Hershey
Miller, Helen Elizabeth.....	Annville
Miller, M. Luther.....	Lebanon
Moffatt, Albert.....	Annville
Mozer, Katherine.....	Highspire
Rohland, Harry.....	Annville
Ressler, Ivan.....	Shamokin
Risser, Blanche.....	Campbelltown
Stengle, Faber E.....	Oberlin
Shell, Susan.....	Myerstown
Sholly, Edith May.....	Myerstown
Stauffer, Velma Mabel.....	Palmyra
Silberman, Dora Dorothy.....	Lebanon
Smith, Grace.....	Shoemakersville
Shenk, Elmer.....	Fontana
Spessard, Bertha.....	Annville
Turby, Myrle E.....	Palmyra
Weidman, Evelyn.....	East Earl
Wolfersberger, Rebecca.....	Campbelltown

ORATORY

SENIORS

Brightbill, Helen E.....	Annville
Smith, Grace N.....	Shoemakersville
Yarkers, Edna E.....	McAlisterville

JUNIORS

Berger, Grace.....	Lebanon
Daugherty, Ethel.....	Elizabethville

UNCLASSIFIED

Butterwick, Oliver.....	Lebanon
Dubble, Anna.....	Myerstown
Herr, Mabel.....	Annville
Hockenbury, Nona D.....	Lebanon
Ischy, John W.....	Lebanon
Jamison, Verling.....	Annville

Kilmer, Edna.....	Reading
Krentz, O. E.....	Dillsburg
Kreider, Elizabeth.....	Annville
Lau, Elizabeth.....	York
Lehman, Edith.....	Annville
Leithiser, Margaret.....	Hershey
Light, Carrie.....	Jonestown
McConel, William.....	Portage
Mulhollen, Victor D.....	Wilmore
Seltzer, Nellie.....	Lebanon
Snyder, Verda A.....	Keedysville, Md.
Urich, Josephine.....	Annville
Weaver, Elta.....	Annville
Weidler, Helen.....	Coatesville
Wingard, Guy.....	Chambersburg

ART

Batdorf, Emma.....	Annville
Bomberger, Mattie.....	Annville
Brunner, Cora.....	Annville
Christeson, Florence.....	Annville
Christeson, Mary.....	Annville
Fink, Esther.....	Annville
Galletin, Elizabeth.....	Annville
Haetter, Anna.....	Lebanon
Kreider, Clement.....	Annville
Kreider, Howard.....	Annville
Kreider, Nancy.....	Annville
Landis, Harold.....	Palmyra
Leithiser, Margaret.....	Hershey
Light, Alma.....	Annville
Longenecker, Paul.....	Palmyra
Maulfair, Mary.....	Annville
Myers, Vera.....	Carlisle
Reigle, Rhoda.....	Lebanon
Shanaman, Mabel.....	Richland
Shoop, Caroline.....	Halifax
Seigrist, Mrs. E.....	Lebanon
Smith, Grace N.....	Shoemakersville
Spangler, Roy.....	Annville
Stein, Mary.....	Annville
Wolf, Anna.....	Annville
Zimmerman, May.....	Lebanon

SUMMARY

Graduate Students.....	6
Seniors	25
Juniors.....	24
Sophomores	25
Freshmen.....	34
Special Students.....	16
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Total in College.....	130
Academy.....	52
Conservatory	66
Oratory	26
Art.....	26
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	301
Deduct names repeated.....	49
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Total.....	252

Degrees Conferred June 7, 1911**BACHELOR OF ARTS**

Brunner, W. Albert	Lehman John K.
Ehrhart, Oliver T.	Lindsay, Alexander M.
Ellis, William Otterbein	Marshall, John Edward
Frost, Fred. L.	Saylor, Rodger Behm
Holdeman, Phares M.	Shoop, William Carson
Kauffman, Artus Orestus	Spessard, Earle Agustus
Kennedy, Francis R.	Spessard, Lester Lewis
Koontz, Paul Rodes	Ziegler, Samuel George

GRADUATES IN MUSIC

Bachman, Ora B.	Gingrich, Edith A.
Detweiler, Ruth Christina	Meyer, Elizabeth May

GRADUATES IN ORATORY

Hockenbury, Nona Downey	Ischy, John W.
Snyder, Verda A.	

INDEX

Academy	52-60
Admission.....	53
Description of Courses.....	55
Examinations.....	53
Outline of Courses.....	54
Advisers.....	15
Art Department	76
Astronomy.....	42
Bible.....	44
Biology.....	44
Board of Trustees	3
Buildings and Grounds	11
Calendar	2
Chemistry.....	47
Class Standing.....	16
College Organizations.....	13
Corporation	3
Courses, Outline of, (College)	29-32
Degrees Conferred	85
Degree and Diploma	16
Discipline	15
Economics.....	43
Education	36
English Language and Literature.....	40
Expenses, College and Academy.....	17
Department of Art.....	76
Department of Music.....	67
Faculty and Officers.....	5
French Language and Literature.....	38
General Information	11
German Language and Literature	40
Graduate Work.....	16
Greek Language and Literature.....	37
Geology.....	47
History	43
History of the College.....	8
Laboratories	12

Latin Language and Literature.....	38
Library and Reading Room	11
Mathematics.....	41
Music Department..	62
Oratory and Public Speaking.....	72
Philosophy.	33
Physics	49
Political Science.....	41
Religious Work.	12
Register of Students.	77
Requirements for Admission	
Academy	55
College.....	20
Scholarships..	16
Sociology.....	43

